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## LIBRARIES MASTERPLAN PURDUE UNIVERSITY

.

VOLUME III - APPENDIX

SEPTEMBER 2023



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### PHASING PLANS Pricing Diagrams

The following diagrams for HSSE Library indicate an intensity of work, rated on existing conditions and proposed new program, intended to clarify the cost estimating process.





**STEW - FIRST FLOOR** 





### STEW - THIRD FLOOR

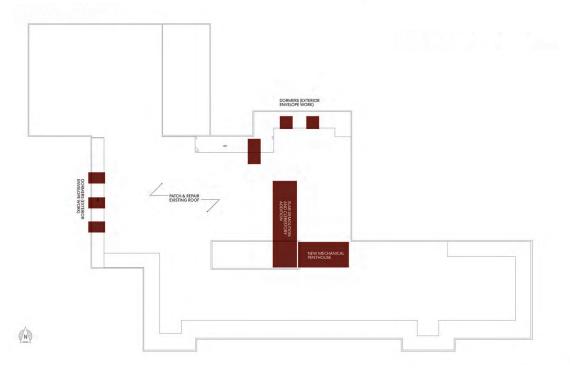


STEW - FOURTH FLOOR





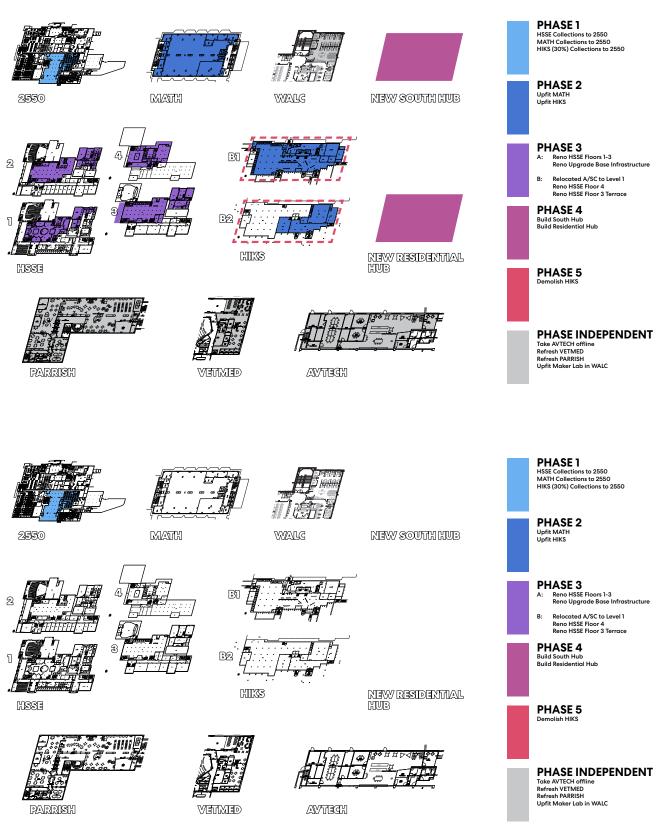




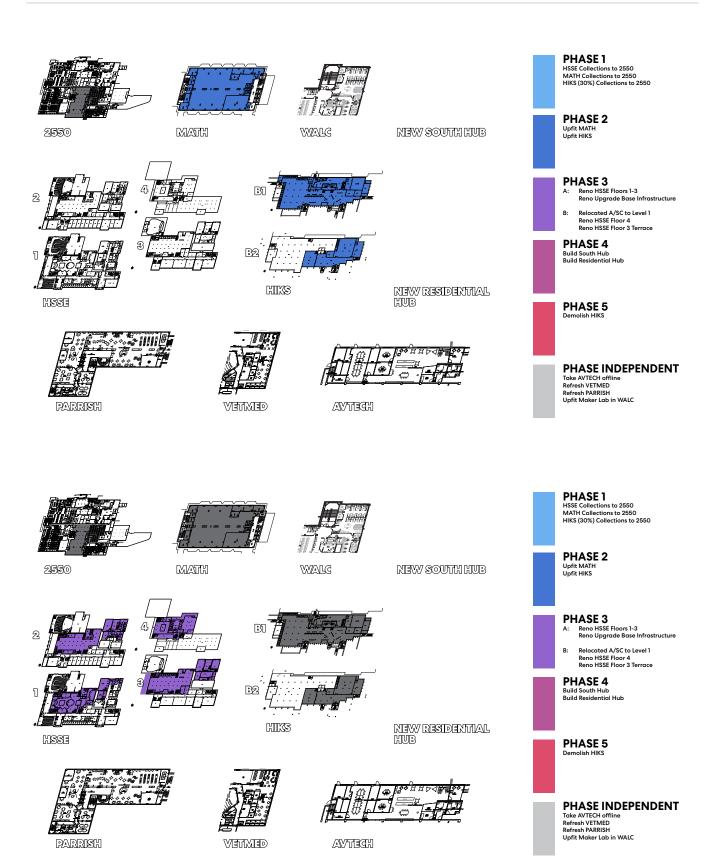




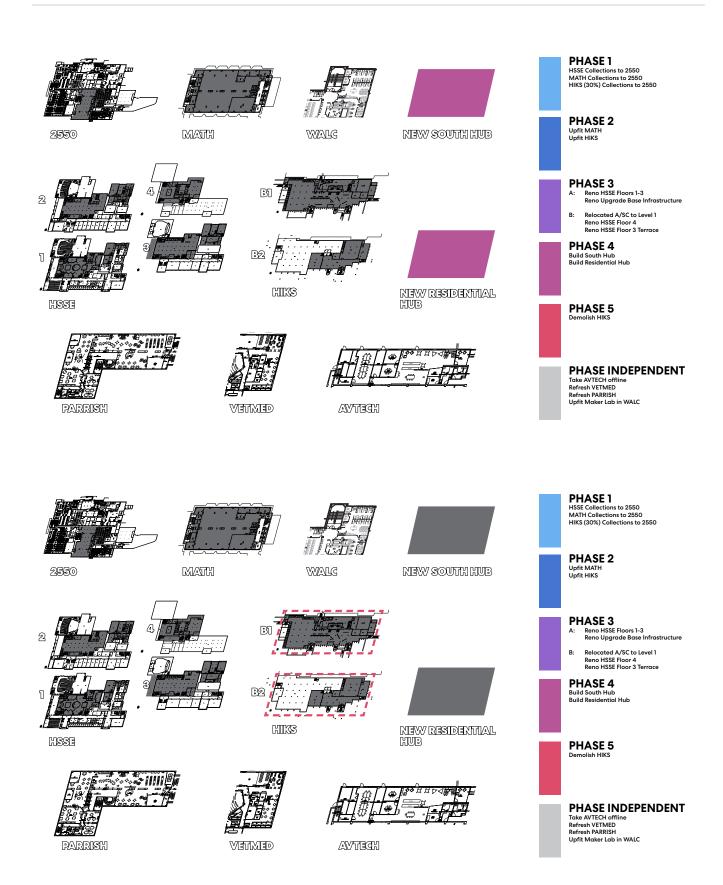
### Phasing



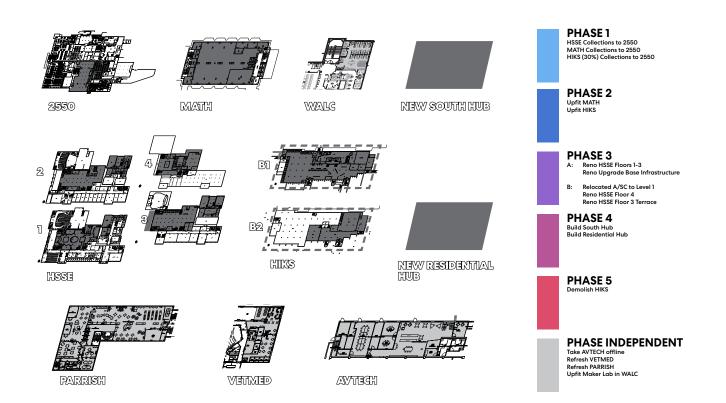














### SPACE PROGRAM HSSE Library (not including Special Collections)

earning Common brary Collections

	Special Collections												
	Seating + Collaboration Operations												
	Partners + Special Programs												
		EXI	ISTING			2022 FU	ILL PROG	RAM		٦			
	Space Type	N.S.F.	Seats	Unit/	Qty.	N.S.F.	LF	Staff	Seats	1	FICM	Critical Adjacency	Functional Description / Special F.F. & E
				Area 2022	-					1	Code		
1.0	ACCESS SERVICES			PROGRA						7			
	SITE 1 ACCESS SERVICES												
1.1.1	Circulation Lib / Access Service Desk Reserve Shelving			250 10	1 3	250 30	54	3		-	310 420	Includes ILL Services	6-high shelving; 8-high for medial shelving
	Holds			10	3	30	54				420		6-high shelving
	Textbook Shelving			10	3	30	54			1	420		6-high shelving
1.1.5	Loanable Equipment Storage Lost & Found	_		10	5	50 10				-	420 455		Lockable cabinets / carts (1) 4-high lateral file or cabinet
1.1.7	Reference Kiosk			64	1	64		1		1	455	Touchdown style kiosk near or part of circ desk.	
	IT Support Kiosk Main Entry Security Desk	_		64 64	1	64 64		1		-	455 310	Touchdown style kiosk near or part of circ desk.	Size for one or two staff Staffed security desk near entry/exit point
	Ready Reference Collections			10	1	10	18			4	420		3-high shelving for ready reference materials
	Secure Display   Showcase			500	1	500				1	620		Security + Climate Control for A/SC
	Marketplace Extension Marketplace Seating			100	1 8	100 280			8	4	620 630		spine out mixed with face-out display; loanable technology, etc Short term lounge seating
1.1.14	Consultation Room			80	1	80				1	350		2-3 persons Activities that may come in and out such as academic advising,
1.1.15	Drop in Services			80	1	80			0	4	310	Adianant in annuit anna 9 aire deals	correct concultation, boolth consistent at academic advising,
	Consultation Waiting Area Express Computers			100	20	100 400			2	+	315 455	Adjacent to consult room & circ desk	Stand-up stations
1.1.18	Express Printers			15	2	30				1	455	Adjacent to express computers	
1.1.19	Express Copy/Scan Digital Signage			25 20	2	50 20				+	455 455	Adjacent to express computers	
	Self-Check Stations			20	2	20				1	455		At main entry
2.1	Pop Up Consultation Kiosk			40	2	80				4	455		1 per fl; Can double as a stand up OPAC station(s)
	Public Computers Computer Stations	4,900		35 30	0 30	0 900			0 30	+	220 220	Captured in "other seating"	Sized for 2 to share dual monitor Mix of wired, mobile seating & tables
2.5	"Idea Box" Display	4,000		150	1	150			6	1	620		Participatory display area with active change
2.8	Popular / Leisure Collection / Journals			10	10	100	90			4	420		3-high shelving;
2.9	Group Study Room - Small Group Study Room - Medium			100 150	6	600 300		-	24	4	410 410		4-person group rooms; 6-person group rooms;
	Group Study Room - Large			200	1	200			10	1	410		10-person group rooms;
2.12	Collaborative Group Seating	2,492		30	25	750			25	1	410		groups of 4-6 seating arrangements with technology media
2.13	Collaborative High Table Seating Print Lab			25 250	20	500 250			20	-	410 455		color copy/print/scan; 2 kickstart copiers; scanners; layout
2.17	Satellite Copy / Print	102	!	80	2	160				1	455		
2.20	Learning Commons Storage			100	3 80	300				1	455 455		1 per floor
2.21 2.22	Student Lockers Digital Signage			4 20	3	320 60				-	455		18" X 24" X 1.18" 3-high lockers; power for recharging 1 per floor
	LEARNING COMMONS SUBTOTAL	7,494	0			4,670	90	0	127	7	435		
	LEARNING COMMONS SUBTOTAL	7,494	0			4,670	90	0	127	7	435		
		7,494							127	7	400		
	LEARNING COMMONS SUBTOTAL	7,494	EXISTING				90 PROGRA		127	7	400		
		7,494							127	7	400	Use collections to define and thematize study space	es Visible, browsing collection
3.0	LIBRARY COLLECTION		EXISTING	14 721	1	2022	PROGRA		127	7			
3.0	LIBRARY COLLECTION	7,494 17,720 3,400	EXISTING	14,721 2,622	1	2022			66		420	Use collections to define and thematize study space	es Visible, browsing collection 6-high shelving in HD system; gen. coll. downsized by 30% 6-high shelving in HD system (includes gov/t docs)
3.0 3.1 3.2 3.3	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Struck Carrel Seating Themed Colection 1	17,720	EXISTING	2,622 10	1 40	2022 14,721 2,622 400	PROGRA 28,656 720				420 420 420		6-high shelving in HD system; gen. coll. downsized by 30% 6-high shelving in HD system (includes gov't docs) 6-high shelving
3.0 3.1 3.2	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Stack Carrel Seating	17,720	EXISTING	2,622 10 10	1	2022 14,721 2,622	PROGR/ 28,656				420	"Tiers"	6-high shelving in HD system; gen. coll. downsized by 30% 6-high shelving in HD system (includes gov't docs) 6-high shelving 3-high shelving
3.0 3.1 3.2 3.3 3.4 3.5 3.6	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Stack Carrel Seating Themed Collection 1 Themed Collection 2 Themed Collection 4 Themed Collection 4	17,720	EXISTING	2,622 10 10 10 10 10	1 40 40 0 0	2022 14,721 2,622 400 400 0 0	PROGR/ 28,656 720 360 0 0				420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility	G-high shelving in HD system; gen. coll. downsized by 30%     G-high shelving in HD system (includes gov't docs)     G-high shelving     S-high shelving     S-high shelving     S-high shelving
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Structural Stacks Themed Collection 1 Themed Collection 1 Themed Collection 3 Themed Collection 3 Themed Collection 4 Periodicals	17,720	EXISTING	2,622 10 10 10 10 10 10	1 40 40 0 0	2022 14,721 2,622 400 400 0 0 0	PROGR/ 28,656 720 360 0 0 0				420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility In South Hub facility Into tiers	B-high sheking in HD system: gen. coll. downsized by 30%     6-high sheking in HD system (includes go/t docs)     6-high sheking     3-high sheking     6-high sheking     3-high sheking     Mix of 3-high sheking
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.6 3.7 3.8	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Stack Carrel Seating Themed Collection 1 Themed Collection 2 Themed Collection 3 Themed Collection 4 Periodicalia Media (UVD / CD)	17,720 3,400 507	EXISTING	2,622 10 10 10 10 10 10 10	1 40 40 0 0 0 0	2022 14,721 2,622 400 400 0 0 0 0 0 0	PROGR/ 28,656 720 360 0 0				420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility	G-High shelving in HD system; gen. coli. downsized by 30%     G-High shelving in HD system (includes gov't docs)     d-High shelving     3-High shelving     3-High shelving     3-High shelving     High shelving     3-High shelving     S-High shelving     S-High shelving     Mix of 3-High & E-High face-out shelving; 270 titles     8-High shelving
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Structural Stacks Existing Stack Carrel Seating Themed Collection 1 Themed Collection 2 Themed Collection 3 Themed Collection 4 Periodicals Media (DVD / CD) PU Authors	17,720	EXISTING	2,622 10 10 10 10 10 10	1 40 40 0 0	2022 14,721 2,622 400 400 0 0 0 0 0 0 0 0 50	PROGR/ 28,656 720 360 0 0 0 0				420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility In South Hub facility Into tiers	B-high sheking in HD system: gen. coll. downsized by 30%     6-high sheking in HD system (includes go/t docs)     6-high sheking     3-high sheking     6-high sheking     3-high sheking     Mix of 3-high sheking
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Stack Carrel Seating Themed Collection 1 Themed Collection 2 Themed Collection 3 Themed Collection 4 Periodicalia Media (UVD / CD)	17,720 3,400 507	EXISTING	2,622 10 10 10 10 10 10 10	1 40 40 0 0 0 0	2022 14,721 2,622 400 400 0 0 0 0 0 0 0 0 50	PROGR/ 28,656 720 360 0 0 0 0 9	M	66		420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility In South Hub facility Into tiers	G-High shelving in HD system; gen. coli. downsized by 30%     G-High shelving in HD system (includes gov't docs)     d-High shelving     3-High shelving     3-High shelving     3-High shelving     High shelving     3-High shelving     S-High shelving     S-High shelving     Mix of 3-High & E-High face-out shelving; 270 titles     8-High shelving
3.0 3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.7 3.8 3.9	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Structural Stacks Existing Stack Carrel Seating Themed Collection 1 Themed Collection 3 Themed Collection 3 Themed Collection 4 Periodicals Periodicals Media (CVD / CD) PU Authons LIBRARY COLLECTION SUBTOTAL	17,720 3,400 507	EXISTING	2,622 10 10 10 10 10 10 10	1 40 40 0 0 0 0	2022 14,721 2,622 400 0 0 0 0 0 0 50 18,193	PROGR/ 28,656 720 360 0 0 0 0 0 0 9 <b>29,745</b>	M	66		420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility In South Hub facility Into tiers	G-High shelving in HD system; gen. coli. downsized by 30%     G-High shelving in HD system (includes gov't docs)     d-High shelving     3-High shelving     3-High shelving     3-High shelving     High shelving     3-High shelving     S-High shelving     S-High shelving     Mix of 3-High & E-High face-out shelving; 270 titles     8-High shelving
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3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1	LIBRARY COLLECTION Collections Existing Structural Stacks Thermed Collection 1 Thermed Collection 3 Thermed Collection 3 Media (DVD / CD) PU Authors LIBRARY COLLECTION SUBTOTAL SPECIAL COLLECTIONS Note Included Here	17,720 3,400 507 100 21,727	EXISTING	2,622 10 10 10 10 10 10 10	1 40 40 0 0 0 0	2022 14,721 2,622 400 0 0 0 0 0 0 50 18,193 2022	PROGRA 28,656 720 360 0 0 0 0 29,745 PROGRA	M 0 M	66		420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-High shelving in HD system; gen. coli. downsized by 30%     G-High shelving in HD system (includes gov't docs)     d-High shelving     3-High shelving     3-High shelving     3-High shelving     Mix of 3-High & E-High face-out shelving; 270 titles     8-High shelving
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3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1	LIBRARY COLLECTION Collections Existing Structural Stacks Thermed Collection 1 Thermed Collection 3 Thermed Collection 3 Media (DVD / CD) P/ Autom LIBRARY COLLECTION SUBTOTAL SPECIAL COLLECTIONS Note Included Here SPECIAL COLLECTIONS SUBTOTAL SEATING + COLLABORATION	17,720 3,400 507 100 21,727	EXISTING	2,622 10 10 10 10 10 10 10	1 40 40 0 0 0 0	2022 14,721 2,622 400 0 0 0 18,193 2022 0	28,656 720 360 0 0 29,745 PROGRA		66		420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-High shelving in HD system; gen. coli. downsized by 30%     G-High shelving in HD system (includes gov't docs)     d-High shelving     3-High shelving     3-High shelving     3-High shelving     Mix of 3-High & E-High face-out shelving; 270 titles     8-High shelving
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1	LIBRARY COLLECTION Collections Existing Structural Stacks Themed Collection 1 Themed Collection 3 Themed Collection 3 Periodicals Media (DV/ CD) PU Authon LIBRARY COLLECTION SUBTOTAL SPECIAL COLLECTIONS Note Included Here SPECIAL COLLECTIONS SUBTOTAL	17,720 3,400 507 100 21,727	EXISTING	2,622 10 10 10 10 10 10 10	1 40 40 0 0 0 0	2022 14,721 2,622 400 0 0 0 18,193 2022 0	28,656 720 360 0 0 29,745 PROGRA		66		420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-High shelving in HD system; gen. coli. downsized by 30%     G-High shelving in HD system (includes gov't docs)     d-High shelving     3-High shelving     3-High shelving     3-High shelving     Mix of 3-High & E-High face-out shelving; 270 titles     8-High shelving
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 5.0 5.1	LIBRARY COLLECTION Collections Existing Structural Stacks Themed Collection 1 Themed Collection 3 Themed Collection 3 Themed Collection 4 Periodicals ILIBRARY COLLECTION SUBTOTAL SPECIAL COLLECTIONS SPECIAL COLLECTIONS SPECIAL COLLECTIONS SUBTOTAL EXPEDIAL COLLECTIONS SUBTOTAL EXPEDIAL COLLECTIONS SUBTOTAL EXPERIMENT COLLECTIONS EXPECIAL COLLABORATION Expected	17,720 3,400 507 100 21,727	EXISTING	2.622 10 10 10 10 10 10 10 10	1 40 0 0 0 0 5 5	2022 14,721 2,622 400 0 0 0 0 0 0 2022 0 2022 6,000	28,656 720 360 0 0 29,745 PROGRA		66 66 0		420 420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-High shelving in HD system; gen. coli. downsized by 30%     G-High shelving in HD system (includes gov't docs)     d-High shelving     3-High shelving     3-High shelving     3-High shelving     Mix of 3-High & E-High face-out shelving; 270 titles     8-High shelving
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.8 3.9 3.9 4.0 4.1 5.0 5.1 5.2	LIBRARY COLLECTION Collections Existing Structural Stacks Thermed Collection 1 Thermed Collection 3 Thermed Collection 3 Thermed Collection 3 Heads (DVD / CD) PU Autors LIBRARY COLLECTION SUBTOTAL SPECIAL COLLECTIONS SPECIAL COLLECTIONS SUBTOTAL SEATING + COLLABORATION Quiet Seating Carrel Seating	17,720 3,400 507 100 21,727 194 194	EXISTING	2.622 10 10 10 10 10 10 10 10 10	1 40 0 0 0 0 5 5	2022 14,721 2,622 400 0 0 0 0 0 18,193 2022 0 0 0 2022 6,000 7,550	28,656 720 360 0 0 29,745 PROGRA		66 66 0 200 306		420 420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-High shelving in HD system; gen. coli. downsized by 30%     G-High shelving in HD system (includes gov't docs)     d-High shelving     3-High shelving     3-High shelving     3-High shelving     Mix of 3-High & E-High face-out shelving; 270 titles     8-High shelving
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.8 3.9 3.9 4.0 4.1 5.0 5.1 5.2	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Structural Stacks Existing Structural Stacks Existing Structural Stacks Themed Collection 1 Themed Collection 2 Themed Collection 3 Themed Collection 4 Periodical8 Media (CVD / CD) PU Authors LIBRARY COLLECTIONS SPECIAL COLLECTIONS SPECIAL COLLECTIONS SPECIAL COLLECTIONS SPECIAL COLLECTIONS SUBTOTAL SPECIAL COLLECTIONS SUBTOTAL SEATING + COLLABORATION Quiet Seating Carrel Seating Table Seating Feriodical Area Seating	17,720 3,400 507 100 21,727 194 194	EXISTING	2.622 10 10 10 10 10 10 10 10	1 40 0 0 0 0 5 5	2022 14,721 2,622 400 0 0 0 0 0 0 2022 0 2022 6,000	28,656 720 360 0 0 29,745 PROGRA		66 66 0		420 420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-High shelving in HD system; gen. coli. downsized by 30%     G-High shelving in HD system (includes gov't docs)     d-High shelving     3-High shelving     3-High shelving     3-High shelving     Mix of 3-High & E-High face-out shelving; 270 titles     8-High shelving
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 5.0 5.1 5.2 5.3 5.4 5.5	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Structural Stacks Existing Structural Stacks Existing Structural Stacks Themed Collection 1 Themed Collection 2 Themed Collection 3 Themed Collection 3 Themed Collection 3 LIBRARY COLLECTION SUBTOTAL SPECIAL COLLECTIONS SPECIAL COLLECTIONS SPECIAL COLLECTIONS SUBTOTAL ESPECIAL COLLECTIONS SUBTOTAL SEATING + COLLABORATION Quiet Seating Carrol Seating Table Seating Table Seating Feriodical Area Seating Mediam Quiet Reading Rcom Small Study Rcomes	17,720 3,400 507 100 21,727 194 194 194	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 10	1 40 0 0 0 0 5 5 200 306 200 1 8	2022 14,721 2,622 400 0 0 0 18,193 2022 0 0 2,022 6,000 7,650 6,000 7,650 6,000 2,050 8,000 2,050 2,052 2,05 2,05 2,052 2,052 2,05	28,656 720 360 0 0 29,745 PROGRA	M 0 0 0	66 66 0 200 306 20 67 32		420 420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-High shekring in HD system; gen. coll. downsized by 30%     G-High shekring in HD system (includes gort docs)     G-High shekring     High shekring
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.0 4.1 5.0 5.1 5.2 5.3 5.4 5.5	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Structural Stacks Existing Structural Stacks Existing Structural Stacks Existing Stack Carrel Sealing Thermed Collection 1 Thermed Collection 3 Thermed Collection 3 Thermed Collection 3 Hedia (COLL COLLECTIONS SUBTOTAL UBRARY COLLECTIONS SPECIAL COLLECTIONS SPECIAL COLLECTIONS SUBTOTAL SEATING + COLLABORATION Quiet Sealing Table Sealing Periodical Area Sealing Medium Quiet Reading Room Small Study Rooms Quiet Longe Sealing	17,720 3,400 507 100 21,727 194 194 194	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 25 30 2.000	1 40 0 0 0 0 5 5	2022 14,721 2,622 400 0 0 0 0 18,193 2022 0 0 2022 20	28,656 720 0 0 0 29,745 PROGR/ 0 PROGR/		66 66 0 200 306 20 67 32 10		420 420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-High shekving in HD system; gen. coll. downsized by 30%     G-High shekving in HD system (includes gov't docs)     G-High shekving     High shekving
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 5.0 5.1 5.2 5.3 5.4 5.5	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Structural Stacks Existing Structural Stacks Existing Structural Stacks Themed Collection 1 Themed Collection 2 Themed Collection 3 Themed Collection 3 Themed Collection 3 LIBRARY COLLECTION SUBTOTAL SPECIAL COLLECTIONS SPECIAL COLLECTIONS SPECIAL COLLECTIONS SUBTOTAL ESPECIAL COLLECTIONS SUBTOTAL SEATING + COLLABORATION Quiet Seating Carrol Seating Table Seating Table Seating Feriodical Area Seating Mediam Quiet Reading Rcom Small Study Rcomes	17,720 3,400 507 100 21,727 194 194 194	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 10	1 40 0 0 0 0 5 5 200 306 200 1 8	2022 14,721 2,622 400 0 0 0 18,193 2022 0 0 2,022 6,000 7,650 6,000 7,650 6,000 2,050 8,000 2,050 2,052 2,05 2,05 2,052 2,052 2,05	28,656 720 360 0 0 29,745 PROGRA	M 0 0 0	66 66 0 200 306 20 67 32		420 420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-High shekving in HD system; gen. coll. downsized by 30%     G-High shekving in HD system (includes gov't docs)     G-High shekving     High shekving
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 5.0 5.1 5.2 5.3 5.4 5.5	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Structural Stacks Existing Structural Stacks Existing Structural Stacks Existing Stack Carrel Sealing Thermed Collection 1 Thermed Collection 3 Thermed Collection 3 Thermed Collection 3 Hedia (COLL COLLECTIONS SUBTOTAL UBRARY COLLECTIONS SPECIAL COLLECTIONS SPECIAL COLLECTIONS SUBTOTAL SEATING + COLLABORATION Quiet Sealing Table Sealing Periodical Area Sealing Medium Quiet Reading Room Small Study Rooms Quiet Longe Sealing	17,720 3,400 507 100 21,727 194 194 194	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 10	1 40 0 0 0 0 5 5 200 306 200 1 8	2022 14,721 2,622 400 0 0 0 0 18,193 2022 0 0 2022 20	28,656 720 0 0 0 29,745 PROGR/ 0 PROGR/		66 66 0 200 306 20 67 32 10		420 420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-High shekving in HD system; gen. coll. downsized by 30%     G-High shekving in HD system (includes gov't docs)     G-High shekving     High shekving
3.0 3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.7 3.8 3.9 4.0 4.1 5.0 5.1 5.2 6.3 5.4 6.5 5.6	LIBRARY COLLECTION Collections Existing Structural Stacks Existing Stack Carel Seating Thermed Collection 1 Thermed Collection 3 Thermed Collection 3 Media Collection 4 Periodical UBRARY COLLECTIONS UBTOTAL UBRARY COLLECTIONS SPECIAL COLLECTIONS SPECIAL COLLECTIONS SUBTOTAL EXPERIME + COLLABORATION Quiet Seating Periodical Area Seating Periodical Area Seating Periodical Area Seating Periodical Area Seating Subtotal Colleborative Seating	17,720 3,400 507 100 21,727 194 194 194 194 2,850 10,925	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 10	1 40 40 0 0 0 5 5	2022 14,721 2,622 400 0 0 0 0 0 0 0 0 0 0 0 0	28,656 720 0 0 0 29,745 PROGR/ 0 PROGR/		66 66 0 200 306 20 67 32 10 635		420 420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-High shekving in HD system; gen. coll. downsized by 30%     G-High shekving in HD system (includes gov't docs)     G-High shekving     High shekving
3.0 3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.7 3.8 3.9 4.0 4.0 4.1 5.0 5.1 5.2 5.3 5.4 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	LIBRARY COLLECTION  Collections  Existing Structural Stacks Existing Stack Carel Seating Thermed Collection 1  Thermed Collection 3  Thermed Collection 3  Media (OVD / CD) PU Authors  LIBRARY COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS  SPECIAL COLLECTIONS  SPECIAL COLLECTIONS SUBTOTAL  SEATING + COLLABORATION  Quiet Seating Table Seating Periodical Area Seating Medium Quiet Reading Room Small Study Rooms Quiet Longs Seating Subtotal  Collaborative Seating Colla	17,720 3,400 507 100 21,727 194 194 194	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 10	1 40 0 0 0 0 5 5 200 306 200 1 8	2022 14,721 2,622 400 0 0 0 0 18,193 2022 0 18,193 2022 0 18,193 2022 18,193 2022 18,193 2022 18,193 2022 18,193 2022 18,193 2022 18,193 2022 19,550 10,550 15,500 15,5	28,656 720 0 0 0 29,745 PROGR/ 0 PROGR/		66 66 0 200 306 20 67 32 10 635 25 8		420 420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-ligh sheking in HD system; gen. coll. downsized by 30%     G-ligh sheking in HD system (includes gov/t docs)     G-ligh sheking     High sheking     Hig
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.0 4.1 5.0 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9	LIBRARY COLLECTION Collections Existing Structural Stacks Themed Collection 1 Themed Collection 3 Themed Collection 3 Themed Collection 4 Periodical 8 Media (OVD / CD) PU Authons LIBRARY COLLECTIONS SUBTOTAL SPECIAL COLLECTIONS SPECIAL COLLECTIONS SPECIAL COLLECTIONS SUBTOTAL ESPECIAL COLLECTIONS SUBTOTAL SEATING + COLLASORATION Quiet Seating Table Seating Table Seating Table Seating Carrel Seating Collaborative Seating Closed Group Rooms (mailt) Closed Group Rooms (mailt) Closed Group Rooms (mailt) Colled Collaborative Seating Carrel Seating Collese Collese College Colleborative Seating Closed Group Rooms (mailt) Closed Grou	17,720 3,400 507 21,727 194 194 194 194 2,850 2,850 10,925	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 10	1 40 40 0 0 0 5 5 5 5 200 306 20 1 8 10 5 1 1	14,721 2,622 400 400 0 0 0 50 18,193 20022 0 0 0 0 0 2,000 350 50 17,400	28,656 720 0 0 0 29,745 PROGR/ 0 PROGR/		66 66 0 200 306 67 32 10 632 32 10 632 32 10 535 8 12		420 420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-High shekring in HD system: gen. coll. downsized by 30%     G-High shekring in HD system (includes gov't docs)     G-High shekring     High shekring
3.0 3.1 3.2 3.3 3.4 3.6 3.6 3.7 3.8 3.9 4.0 4.0 4.1 5.0 5.1 5.2 5.3 5.4 5.5 5.6 5.5 5.5 5.0	LIBRARY COLLECTION  Collections  Existing Structural Stacks Thermed Collection 1  Thermed Collection 3  Thermed Collection 3  Thermed Collection 4  Periodical  SPECIAL COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS  SPECIAL COLLECTIONS  SPECIAL COLLECTIONS SUBTOTAL  SEATING + COLLABORATION  Quiet Seating Table Seating Periodical Area Seating Medium Quiet Rauding Room Small Study Rooms Quiet Longe Seating Subtotal  Collaborative Seating Collaborative Room Course (small) COlosed Group Rooms (small) Collaborative Room	17,720 3,400 507 21,727 194 194 194 194 2,850 2,850 10,925	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 10	1 40 40 0 0 0 5 5 5 200 306 20 1 8 10 1 1 1	2022 14,721 2,622 400 0 0 0 0 18,193 2022 0 18,193 2022 0 2022 0 2022 17,650 800 305 305 305 17,490 120	28,656 720 0 0 0 29,745 PROGR/ 0 PROGR/		66 66 66 200 306 67 32 67 32 10 67 32 10 635 20 67 32 10 8 35		420 420 420 420 420 420 420 420 420 420	"Tiers" In South Hub facility In South Hub facility Into Iers Into Iers Into Iers	G-ligh shekring in HD system; gen. coll. downsized by 30%     G-ligh shekring in HD system (includes gov't docs)     G-ligh shekring     High shekring
3.0 3.1 3.2 3.3 3.4 3.6 3.7 3.8 3.9 4.0 4.0 4.1 5.0 5.0 5.1 5.2 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.7 5.8 5.5 5.7 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.7 5.8 5.5 5.7 5.7 5.8 5.5 5.7 5.7 5.7 5.8 5.5 5.7 5.7 5.7 5.8 5.5 5.7 5.7 5.7 5.8 5.5 5.7 5.7 5.7 5.7 5.7 5.7 5.7	LIBRARY COLLECTION  Collections  Existing Structural Stacks Existing Structural Stacks Existing Structural Stacks Existing Structural Stacks Existing Stack Carel Sealing Themed Collection 1  Themed Collection 3  Themed Collection 4  Periodical  IdeRARY COLLECTION SUBTOTAL  SPECIAL COLLECTIONS  SPECIAL COLLECTIONS SPECIAL COLLECTIONS SUBTOTAL  SEATING - COLLABORATION  Quiet Seating Table Seating Table Seating Collaborative Seating Subtotal Collaborative Seating Collaborative Room (medilum) Presentation Room Grave Rooms (medilum) Presentation Room Comp Rooms (medilum)	17,720 3,400 507 1000 21,727 194 194 194 194 2,850 10,925 2,850 10,925 2,850	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 10	1 40 40 0 0 0 5 5 5 200 1 8 8 10 10 5 1 1 1 1 8 1	2022 14,721 2,622 400 400 0 0 0 0 2022 0 2022 0 2022 0 2022 18,193 2022 0 2022 17,400 500 17,400 160 120 200 200 120 120 120 120 12	28,656 720 0 0 0 29,745 PROGR/ 0 PROGR/		66 66 66 200 306 20 67 32 20 67 32 10 635 8 12 5 8 12 5 8		420 420 420 420 420 420 420 420 420 420	"Tiers"  In South Hub facility In South Hub facility In South Hub facility Into Iers I	G-High shekring in HD system: gen. coll. downsized by 30%     G-High shekring in HD system (includes gov't docs)     G-High shekring     High shekring
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9	LIBRARY COLLECTION  Collections  Existing Structural Stacks Themed Collection 1 Themed Collection 2 Themed Collection 3 Themed Collection 3 Themed Collection 3 LIBRARY COLLECTION SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  SEATING + COLLABORATION  Quiet Seating Carrel Seating Medium Quiet Reading Room Studiet Seating Carrel Seating Carrel Seating Carrel Seating Carrel Seating Carrel Seating Collaborative Room Corput Plans'ower Room Corput Plans'ower Room Corput Plans'ower Room Corput Res Corput Areas (mail) Copen Flax Korput Areas (mail) Collaborative Areas (mail) Copen Flax Korput Areas (mail) Copen Flax Korp	17,720 3,400 507 100 21,727 194 194 194 2,850 10,925 2,850 10,925 2,850 10,925	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 20 25 30 2.000 25 30 2.000 100 150 150 120 100 140	1 40 40 0 0 0 5 5 5 5 5 5 5 5 5 5 5 5 1 1 1 1	14,721 2,622 400 400 0 0 0 50 18,193 2022 2,000 2,000 350 17,400 50 17,400	28,656 720 0 0 0 29,745 PROGR/ 0 PROGR/		66 66 0 200 306 20 67 32 10 635 8 25 8 12 5 8 12 5 32 6 30		420 420 420 420 420 420 420 420 420 420	Tiers"  In South Hub facility In South Hub facility In South Hub facility Into Biers Int	G-ligh shekring in HD system; gen. coll. downsized by 30%     G-ligh shekring in HD system (includes gort docs)     G-ligh shekring     High shekring
3.0 3.1 3.2 3.3 3.4 3.3 3.4 3.9 3.9 4.0 4.0 4.1 5.0 5.1 5.2 5.7 5.8 5.6 5.7 5.8 5.6 5.7 5.8 5.6 5.7 5.8 5.6 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.5 5.7 5.8 5.7 5.8 5.7 5.8 5.7 5.8 5.7 5.8 5.7 5.8 5.7 5.8 5.7 5.8 5.7 5.8 5.7 5.8 5.7 5.8 5.7 5.1 5.7 5.8 5.7 5.8 5.7 5.1 5.7 5.8 5.1 5.7 5.8 5.1 5.7 5.8 5.1 5.1 5.7 5.8 5.1 5.1 5.7 5.8 5.1 5.1 5.7 5.8 5.1 5.1 5.1 5.7 5.8 5.1 5.1 5.1 5.7 5.8 5.1 5.1 5.1 5.7 5.8 5.1 5.1 5.1 5.7 5.8 5.1 5.1 5.1 5.7 5.8 5.1 5.1 5.1 5.7 5.8 5.1 5.1 5.1 5.7 5.8 5.1 5.1 5.1 5.7 5.1 5.1 5.1 5.7 5.1 5.1 5.1 5.7 5.1 5.1 5.1 5.1 5.7 5.1 5.1 5.1 5.1 5.7 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1	LIBRARY COLLECTION  Collections  Existing Structural Stacks Existing Stack Carel Sealing Themed Collection 1 Themed Collection 3 Themed Collection 4 Periodical8  Media (CVD / CD) PU JuAthons LIBRARY COLLECTION SUBTOTAL  SPECIAL COLLECTIONS SPECIAL COLLECTIONS SPECIAL COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  SEATING + COLLABORATION  Quiet Seating Table Seating Table Seating Table Seating Table Seating Table Seating Collaborative Seating Collaborative Seating Collaborative Seating Collaborative Room Courd / Interview Room Courd / Interview Room Copen Fixe Crocy Areas (medium) Cafe Seating (fliph)	117,720 3,400 507 21,727 21,727 100 21,727 21,727 24,727 2	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 10	1 40 40 0 0 0 5 5 5 1 1 1 1 1 1 1 300 20 20 20 20 20 20 20 20 20 20	2022 14,721 2,622 400 400 0 0 0 0 500 18,193 2022 0 2022 0 2022 0 2022 17,400 500 17,400 500 150 120 800 150 150 150 150 150 150 150 1	28,656 720 0 0 0 29,745 PROGR/ 0 PROGR/		66 66 66 200 306 67 32 20 67 32 20 67 32 20 67 32 36 30 32 32 32 32 32 32 32 32 32 32 32 32 32		420 420 420 420 420 420 420 420 420 420	Tiers"  In South Hub facility In South Hub facility In South Hub facility Into tiers Int	G-ligh shekring in HD system; gen. coll. downsized by 30%     G-ligh shekring in HD system (includes gort docs)     G-ligh shekring     G-ligh shekring     High shekring
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9	LIBRARY COLLECTION  Collections  Existing Structural Stacks Themed Collection 1 Themed Collection 2 Themed Collection 3 Themed Collection 3 Themed Collection 3 LIBRARY COLLECTION SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  SEATING + COLLABORATION  Quiet Seating Carrel Seating Medium Quiet Reading Room Studiet Seating Carrel Seating Carrel Seating Carrel Seating Carrel Seating Carrel Seating Collaborative Room Corput Plans'ower Room Corput Plans'ower Room Corput Plans'ower Room Corput Res Corput Areas (mail) Copen Flax Korput Areas (mail) Collaborative Areas (mail) Copen Flax Korput Areas (mail) Copen Flax Korp	17,720 3,400 507 100 21,727 194 194 194 2,850 10,925 2,850 10,925 2,850 10,925	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 20 25 30 2.000 25 30 2.000 100 150 150 120 100 140	1 40 40 0 0 0 5 5 5 5 5 5 5 5 5 5 5 5 1 1 1 1	14,721 2,622 400 400 0 0 0 50 18,193 2022 2,000 2,000 350 17,400 50 17,400	28,656 720 0 0 0 29,745 PROGR/ 0 PROGR/		66 66 0 200 306 20 67 32 10 635 8 25 8 12 5 8 12 5 32 6 30		420 420 420 420 420 420 420 420 420 420	Tiers"  In South Hub facility In South Hub facility In South Hub facility Into Biers Int	G-ligh shekring in HD system; gen. coll. downsized by 30%     G-ligh shekring in HD system (includes gort docs)     G-ligh shekring     G-ligh shekring     High shekring
3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.0 4.1 5.0 5.1 5.2 5.1 5.2 5.5 5.6 5.5 5.6 5.5 5.6 5.5 5.6 5.5 5.5	LIBRARY COLLECTION  Collections  Existing Structural Stacks Themed Collection 1 Themed Collection 2 Themed Collection 3 Themed Collection 3 Themed Collection 3 UBRARY COLLECTION SUBTOTAL  SPECIAL COLLECTIONS  SPECIAL COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  SPECIAL COLLECTIONS SUBTOTAL  Collaborative Seating Medium Quart Reading Room Stubtotal  Collaborative Seating Closed Group Rooms (denail) Closed Group Rooms (denail) Closed Group Rooms (denail) Consed Group Rooms (denail) Consed Group Rooms (denail) Consed Group Rooms (denail) Consed Group Rooms (denail) Consel Group Areas (mail) Open Fixe Group Areas (mail) Coafe Seating (low) Cafe Seating (	117,720 3,400 507 21,727 21,727 100 21,727 21,727 24,727 2	EXISTING	2.622 10 10 10 10 10 10 10 10 10 10 10 10 20 20 20 100 150 150 150 120 100 140 140 225 25 25	1 40 40 0 0 0 5 5 200 306 20 10 10 10 11 1 1 1 1 1 1 1 1 1 30 20 205 55	14,721 2,622 400 400 0 0 0 50 18,193 2022 2,000 2,000 2,000 350 6,000 2,000 17,400 500 17,400	28,656 720 0 0 0 29,745 PROGR/ 0 PROGR/		66 66 0 200 306 20 67 32 10 635 8 25 8 12 5 32 6 12 5 32 6 30 20		420 420 420 420 420 420 420 420 420 420	Tiers"  In South Hub facility In South Hub facility In South Hub facility Into liers Int	G-ligh shekring in HD system; gen. coll. downsized by 30%     G-ligh shekring in HD system (includes gort docs)     G-ligh shekring     G-ligh shekring     High shekring

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	Learning Labs				
5.18	Seminar	400 1 400 16	350	Cluster with some sm. Group rooms	Smart classroom capable; doubles as group room
5.18	Computer Lab	400         1         400         16           700         1         700         25	210	Cluster war some sm. Group rooms	Smart classroom capable, doubles as group room
5.20	Computer Lab Storage 0 0	40 1 40 1,140 0 0 41	215		
		1,140 0 0 41			
	Other Seating				
5.21	Computer Stations (clustered) 316	30 30 900 30	410		20 stations per floor (not including 1F)
5.22 5.23	Computer Stations (1F) 2757 Special Projects Room	30         15         450         15           180         2         360         16	410 350	Long term project rooms	30 station cluster Double as group study rooms
5.24	Terrace Seating	25 75 75	-	Outdoor seating on 3F Terrace	Double as group study rooms
	Subtotal 3,073 0	1,710 0 0 136			
	SEATING+COLLABORATION SUBTOTAL 27,999 0	26,910 0 0 1,070			
6.0	LIBRARY OPERATIONS EXISTING	2022 PROGRAM			
6.1	Administration 16,782				
6.1.1	Library Dean's Office	200 1 200 1	310		
6.1.2	Assoc. Dean	150 1 150 1	310		
6.1.3	Associate Dean Offices	150         1         150         1           120         1         120         1	310 310		
6.1.5	Admin/Reception	100 1 100 1	310		
6.1.6	Workstations Remote Staff	56         4         224         4           0         1         0         1	310 310		
6.1.8	Future Workstations	56 2 112	310		
6.1.9	Reception waiting/seating Filing Storage Room	180 1 180 100 1 100	310 315		
6.1.11	Kitchenette	80 1 80	315		
6.1.12 6.1.13	Copy / Print Meeting (Medium)	80 1 80 400 1 400	315 350	Shared / Publicly Accessible	
6.1.14	Meeting (Small)	120 1 120	350		
	Subtotal 0 0	2,016 0 10 0			
6.2	Access Services				
6.2.1	Office	120 1 120 1	310		
6.2.2	Workstations 0 0	56 5 280 5 400 0 6 0	310		
6.3	Acquisitions & E-Resources				
6.3.1	Office		310		
6.3.2	Workstations	56 7 392 7	310		
6.3.3	Lockable Cabinets	10 4 40	315		
	Subtotal 0 0	432 0 8 0			
6.4	Advancement				
6.4.1	Office	120 1 120 1	310		
6.4.2	Workstations	56 1 56 1	310		
	Subtotal 0 0	176 0 2 0			
6.5	Business Office				
6.5.1	Office	120 1 120 1	310		
6.5.2	Workstations	56 1 56 1	310		
	Subtotal 0 0	176 0 2 0			
6.6	Collections & Access/Tech Services				
6.6.1	Office	120 0 0 1	310		
6.6.2	Workstations Subtotal 0 0	56         8         448         8           448         0         9         0	310	8 stations shared by 12 persons	
6.7	Communications				
6.7.1 6.7.2	Office	120         1         120         1           56         1         56         1	310 310		
6.7.2	Workstations Remote Staff	0 1 0 1	310		
	Subtotal 0 0	176 0 3 0			
6.8	University Copyright				
6.8.1	Office	120 1 120 1	310		
6.8.2	Workstations	56         1         56         1           176         0         2         0	310	Half time person	
		1/6 0 2 0			1
6.9	Digital Programs				
6.9.1	Office		310		
6.9.2 6.9.3	Workstations Remote Staff	56         4         224         4           0         1         0         1	310 310		1
	Subtotal 0 0	224 0 6 0			
6.10	Library Facilities			STEW by dock	
6.10.1		120 1 120 1	310		
6.10.2	Workstations	56 5 280 5	310		
6.10.3	Future Workstations Subtotal 0 0	56         1         56         1           456         0         7         0	310		+
					1
6.11	Libraries IT				
6.11.1 6.11.2	Office Vorkstations	120 1 120 1 56 7 392 7	310 310		
6.11.3	Remote Staff	0 1 0 1	310		1
6.11.4	Compouter Repair/Imaging Bench Subtotal 0 0	50 4 200 4 712 0 13 0	315		
		.12 0 13 0			1
6.12	Purdue University Press				
6.12.1	Office		310		
6.12.2	Workstations         0         0	56 8 448 8 568 0 9 0	310		1
6.13					
6.13	Scholarly Publishing Services				
6.13.1	Workstations Subtotal 0 0	56         2         112         2           112         0         2         0	310		
		112 0 2 0			
6.14	Future Growth				
6.14.1	Office	120 2 240 1	310		
6.14.2 6.14.3	Workstations Remote Staff	56         4         224         4           0         0         0         0	310 310		
6.14.4	Touchdown / Student Workstation	40 4 160 4	310		
	Subtotal 0 0	624 0 9 0			1



6.15	Shared Resources		
6.15.1	Staff Kitchenette		
6.15.2	Staff Break Room	633	
6.15.3	Distributed Copy/Print		
6.15.4	General Storage		
6.15.5	Supply Storage		
6.15.6	Supply Storage		
6.15.7	Small Meeting Room		
6.15.8	Medium Meeting Room	469	
6.15.9	Wellness/Lactation Room		
	Subtotal	1,102	
6.16	Misc. B.O.H.		
6.16.1	General Library Storage	301	
6.16.2	General Stockroom	634	
6.16.3	Book Recycling Storeroom		
6.16.4	Dock		
6.16.5	Shipping & Receiving	424	
6.16.6	Outgoing Holding	104	
6.16.7	Mailroom		
6.16.8	Housekeeping Central Storage	221	
6.16.9	Housekeeping Floor Closets & Storage	335	
	Subtotal	2,019	1
	STAFF + SUPPORT AREAS SUBTOTAL	3,121	

50 0 00 50 00 00	1 0 1 1 1 1 4	150 0 300 150 100 200 320 <b>1,970</b>	0	0	0
150 0 300 150 100	0 1 1 1 1	0 300 150 100 200			
150 0 300 150	0 1 1	0 300 150 100			
500 150 0 300 150 100	0 1 1	0 300 150			
150 0 300	0	0 300			
150 0	0	0			
150					
	1	150			
500					
	1	500			
250	1	250			
		1,150	0	0	0
60	1	60			
200	1	200			
120	1	120			
150	0	0			
150	1	150			
200	1	200			
	3	120			
40	1	100 200			
100 200	1				

315		
315		
315		
730		
730		
730		
350		
350		
315		
455		
730		
730		
W04	Not counted as interior space	
750		
750		
750		
730		
730		

	PARTNERS + SPECIAL PROGRAMS		EXISTING						
								_	
7.1	Virtual Learning Hub								
7.1.1	Arrival / Checking			100	1	100			
7.1.2	Single Pods			35	50	1,750			50
7.1.3	Double Pods			45	6	270			12
7.1.4 7.1.5	2-Person Rooms			60 90	6	360 270			12
7.1.5	3-Person Rooms Mobile Whiteboards			90	18	108			12
1.1.0	Subtotal	0	0		10	1,858	0	0	86
7.2	Expanded Market Place (HSSE)								
					1			r	
7.2.1	Market Place Display New and Noteworthy			400	4	400 40			
7.2.2	Digital Signage			80	1	80			
7.2.4	High Top Table Seating			25	20	500			20
7.2.5	Café Table Seating			25	20	500			20
7.2.6	Acoustical Seating			40	4	160			4
7.2.7	Lounge Seating Large Media Wall			35 350	10 1	350 350			10 8
7.2.9	Pop-Up Presentation/Gathering			500	1	500			14
7.2.10	Art Gallery			1,200	1	1,200			
7.2.11	Art Gallery Storage			100	1	100			
	Subtotal	0	0			4,180	0	0	76
7.3	Café								
7.3	Cale								
7.3.1	Servery Area / POS			400	1	400		4	
7.3.2	Queuing Space			200	1	200			
7.3.3	Food Prep / Storage Wash			200	1	200			
7.3.4	Refrigerated Storage			100	1	100			
7.3.5	Dry Storage Incoming/outgoing holding			100	1	100			
7.3.0	Café Accounting Rm			80	1	80		1	1
	8-10 person (shared with others)	0	0			1,180	0	5	0
7.4	Non-Traditional Students Study	_							
7.4.1	Open Table Seating			30	4	120			4
7.4.2	Open Lounge Seating			35	2	70			2
7.4.3	Children's Area			100	1	100			
7.4.4	Lactation Room			80	1	80			
	Subtotal	0	0			370	0	0	6
7.5	Inter Library Loan								
7.5	Inter Library Loan								
7.5.1	Total Area	1,719		1,500	1	1,500			
	Subtotal	1,719	0			1,500	0	0	0
7.6	Experimental Teaching Learning								
				1,200	1	1,200			30
7.6 7.6.1 7.6.2	Experimental Classroom Experimental Classroom Storage			1,200 200	1	1,200 200			30
7.6.1	Experimental Classroom	0	0				0	0	30 30
7.6.1	Experimental Classroom Experimental Classroom Storage	0	0			200	0	0	
7.6.1 7.6.2	Experimental Classroom Experimental Classroom Storage Subtotal	0	0			200	0	0	
7.6.1	Experimental Classroom Experimental Classroom Storage	0	0			200	0	0	
7.6.1 7.6.2 7.8	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS)	0	0	200		200 1,400	0	0	
7.6.1 7.6.2	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station	0	0		1	200 1,400 150	0	0	30
7.6.1 7.6.2 7.8 7.8.1 7.8.2 7.8.3	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Dopply Wal Meeting / Constit	0	0	200 150 150	1	200 1,400 150 150	0	0	
7.6.1 7.6.2 7.8 7.8.1 7.8.2 7.8.3 7.8.4	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Daplav Wal Meeting / Consult OS Office	0	0	200 150 100 150 120	1 1 1 1 1 1	200 1,400 150 100 150 120	0	1	30
7.6.1 7.6.2 7.8 7.8 7.8.1 7.8.2 7.8.3 7.8.4 7.8.4 7.8.5	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Dipplay Wall Meeting / Consult COS Office COS Workstation	0	0	200 150 100 150 120 56	1 1 1 1 1 1 2	200 1,400 150 150 120 112	0	0	30
7.6.1 7.6.2 7.8 7.8 7.8.1 7.8.2 7.8.3 7.8.4 7.8.4 7.8.5 7.8.6	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Diplay Wall Meeting / Consult COS Winkatation COS Winkatation	0	0	200 150 100 150 120 56 40	1 1 1 1 1 1 2 2	200 1,400 150 150 120 112 80	0	1	30
7.6.1 7.6.2 7.8 7.8 7.8.1 7.8.2 7.8.3 7.8.4 7.8.4 7.8.5	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Display Wall Meeting / Consult COS Office COS Workstation Student Vorker TO Workstations Student Vorkers	0	0	200 150 100 150 120 56	1 1 1 1 1 1 2	200 1,400 150 150 120 112	0	1	30
7.6.1 7.6.2 7.8 7.8 7.8.1 7.8.2 7.8.3 7.8.4 7.8.5 7.8.6 7.8.7	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Dipaby Wal Meeting / Constit CDS Office CDS Workstation Student Vorker TD Workstations Student Lockers Digital ZhON		0	200 150 100 150 120 56 40 40	1 1 1 1 1 2 2 2	200 1,400 150 150 120 112 80 80	0	1 2	30
7.6.1 7.6.2 7.8 7.8 7.8.1 7.8.3 7.8.4 7.8.3 7.8.4 7.8.5 7.8.6 7.8.6 7.8.7 7.8.8	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Dipplay Wall Meeting / Corolat COS Michael Cost Student Vorker TO Workstations Student Vorker TO Workstations Student Ockers DIGITEZITON Office		0	200 150 100 150 120 56 40 40 120	1 1 1 1 2 2 2 2 0	200 1,400 150 150 120 112 80 80 0	0	1 2	30
7.6.1 7.6.2 7.8 7.8 7.8.1 7.8.2 7.8.3 7.8.4 7.8.5 7.8.6 7.8.7	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Display Wall Meeting / Coroatt COS Morkation Student Vorker TO Workstations Student Vorker TO Workstations Student Vorkers DIGITEZTON Office Office Office	200	0	200 150 100 150 120 56 40 40	1 1 1 1 1 2 2 2	200 1,400 150 150 120 112 80 80 80 0 0	0	1 2	30
7.6.1 7.6.2 7.8 7.8 7.8.1 7.8.2 7.8.3 7.8.4 7.8.5 7.8.6 7.8.7 7.8.7 7.8.8 7.8.8	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Daplay Wal Meeting / Constit COS Office COS Workstation Student Lockers DiGitr2ATON Office Workstations Digitations Digi		0	200 150 100 120 56 40 40 120 56	1 1 1 1 2 2 2 2 0 0	200 1,400 150 150 120 112 80 80 0	0	1 2	30
7.6.1 7.6.2 7.8 7.8 7.8.1 7.8.2 7.8.3 7.8.4 7.8.5 7.8.6 7.8.7 7.8.6 7.8.7 7.8.8 7.8.9 7.8.10 7.8.10 7.8.11	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Ognal Digary Wall Meeting / Corsuit COS Office COS Worksatton Student Vorker TD Workstations Student Vorker TD Workstations Student Cokers DIGITZATION Office Ugitzation Lab Lab Storage DIGITAL HUMANTIES	200 860	0	200 150 100 150 150 266 56 900 80	1 1 1 1 2 2 2 2 2 0 0 0 1 1	200 1,400 150 120 112 80 80 0 0 0 900 80	0	1 2 0 0	30
7.6.1 7.6.2 7.8 7.8 7.8.1 7.8.2 7.8.3 7.8.4 7.8.5 7.8.6 7.8.7 7.8.8 7.8.9 7.8.10 7.8.11 7.8.12	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Dipplay Wal Meeting / Consult COS Office COS Workstation Sudemt Vorker TD Workstations DigitalZTOM Office Office Office Digitation Lab Lab Storage Digitation Lab Cats Storage Digitation Digitation Lab Cats Storage Digitation Di	200 860 232	0	200 150 100 150 120 56 40 40 120 56 900 80 120	1 1 1 1 2 2 2 2 0 0 0 1 1 1 2	200 1,400 150 150 120 112 80 80 80 0 0 0 900 80 240	0	1 2	30
7.6.1 7.8.2 7.8 7.8.2 7.8.2 7.8.4 7.8.5 7.8.6 7.8.6 7.8.6 7.8.7 7.8.10 7.8.10 7.8.11 7.8.12 7.8.12	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Receptor Station Deptal Deptay Wall Meeting / Consult CDS Office CDS Workstation Student VorketTD Workstations Student VorketTD Workstations DGTTZAL TOWANTTES Office Digital Humanities Lab Digital Consult	200 860 232 586	0	200 150 100 150 120 56 40 40 120 56 900 80 120 300	1 1 1 1 2 2 2 2 0 0 0 1 1 1 2 1	200 1,400 150 100 150 120 112 80 80 0 0 0 0 0 0 0 0 80 80 240 300	0	1 2 0 0	30
7.8.1 7.8.2 7.8 7.8.3 7.8.4 7.8.5 7.8.5 7.8.6 7.8.7 7.8.8 7.8.9 7.8.10 7.8.11 7.8.12	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Display Wal Meeting / Conait COS Workstation Student Vocker TO Workstations Student Vockers DIGITEATION Office Digital Innanities Lub Lace Storage	200 860 232	0	200 150 100 150 120 56 40 40 120 56 900 80 120	1 1 1 1 2 2 2 2 0 0 0 1 1 1 2	200 1,400 150 150 120 112 80 80 80 0 0 0 900 80 240	0	1 2 0 0	30
7.6.1 7.8.2 7.8 7.8.1 7.8.2 7.8.4 7.8.5 7.8.6 7.8.6 7.8.6 7.8.7 7.8.10 7.8.10 7.8.11 7.8.12 7.8.12	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Receptor Station Deptal Deptay Wall Meeting / Consult CDS Office CDS Workstation Student VorketTD Workstations Student VorketTD Workstations DGTTZAL TOWANTTES Office Digital Humanities Lab Digital Consult	200 860 232 586	0	200 150 100 150 120 56 40 40 120 56 900 80 120 300	1 1 1 1 2 2 2 2 0 0 0 1 1 1 2 1	200 1,400 150 100 150 120 112 80 80 0 0 0 0 0 0 0 0 80 80 240 300	0	1 2 0 0	30
7.8.1 7.8.2 7.8 7.8.3 7.8.5 7.8.5 7.8.6 7.8.7 7.8.8 7.8.9 7.8.10 7.8.11 7.8.12 7.8.12 7.8.14 7.8.14	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Dipplay Wal Meeting / Consult COS Workstation Student Vorker TD Workstations Student Vorkers DIGIT2ATON Office Cost Cost Cost Cost Cost Cost Cost Cost	200 860 232 586	0	200 150 100 150 120 56 40 40 40 40 120 56 900 80 80	1 1 1 1 2 2 2 2 0 0 0 1 1 1 2 1	200 1,400 150 150 120 1120 1120 1120 80 80 0 0 0 0 900 80 80 240 300 80	0	1 2 0 0	30
7.6.1 7.8 7.8 7.8 7.8 7.8.5 7.8.6 7.8.6 7.8.7 7.8.8 7.8.7 7.8.8 7.8.9 7.8.10 7.8.11 7.8.13 7.8.13 7.8.14 7.8.14 7.8.15 7.8.16	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Dipply Wal Meeting / Const. COS Workston Student Vocker TO Workstations Student Vockers DGITZATON Office Office Digitation Lab Lab Storage RESEARCH DATA REPOSITORY (PURR) Office Office Office Office Office Office Office Cos Substation Content Cos C	200 860 232 586		200 150 100 150 120 56 40 40 120 56 900 80 120 300 80 120 0	1 1 1 1 1 2 2 2 2 2 0 0 1 1 1 1 2 1 0	200 1,400 150 100 150 120 112 80 80 80 900 900 900 900 80 240 300 80 120 0		0 0 0	30
7.6.1 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	Experimental Classroom Experimental Classroom Stubtotal Center for Digital Scholarship (CDS) Reception Station Deptial Deptive Wall Meeting / Consult CDS Office CDS Workstation Student Lockers DIGTER_LOKEN DIGTER_TON Office Of	200 860 232 586		200 150 100 150 120 56 40 40 40 120 56 900 80 120 300 80 120 120 120 120 120 120 120 12	1 1 1 2 2 2 2 0 0 1 1 1 1 1 1 1	200 1,400 150 150 120 112 80 0 0 0 0 900 80 		0 0 0	30
7.6.1 7.8 7.8 7.8 7.8 7.8.5 7.8.6 7.8.6 7.8.6 7.8.6 7.8.6 7.8.9 7.8.10 7.8.10 7.8.11 7.8.13 7.8.13 7.8.14 7.8.13 7.8.14 7.8.15 7.8.16 7.8.16 7.8.15 7.8.16 7.8.16 7.8.16 7.8.17	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Dipply Wal Meeting / Consut COS Workstation Student Vorker TO Workstations Student Vorkers DIGITEATION Office Offi	200 860 232 586		200 150 100 150 120 56 40 40 120 58 900 80 120 300 80 120 0 40	1 1 1 1 1 2 2 2 0 0 0 1 1 1 1 2 1 1 1 0 4	200 1,400 150 150 120 120 120 120 80 80 900 80 900 80 240 300 80 80 120 0 160		0 0 0	30 2 2 6
7.6.1 7.8 7.8 7.8 7.8 7.8 7.8 7.8.5 7.8.5 7.8.5 7.8.5 7.8.5 7.8.5 7.8.5 7.8.1 7.8.12 7.8.13 7.8.14 7.8.16 7.8.16 7.8.16	Experimental Classroom Experimental Classroom Stubtotal Center for Digital Scholarship (CDS) Reception Station Deptiel Deptiv Weil Meeting / Consult COS Office COS O	200 860 232 586	0	200 150 100 150 120 56 40 40 40 120 56 900 80 80 80 120 300 80 40 40 40 40 40 40 40 80 80 80 80 80 80 80 80 80 8	1 1 1 1 1 1 2 2 2 0 0 0 1 1 1 1 1 1 0 4 4	200 1,400 150 150 150 112 80 80 0 900 80 240 300 80 120 0 160 80 80		0 0 0	30
7.6.1 7.8 7.8 7.8 7.8 7.8.2 7.8.3 7.8.4 7.8.5 7.8.6 7.8.7 7.8.9 7.8.10 7.8.11 7.8.13 7.8.13 7.8.15 7.8.15 7.8.17 7.8.18 7.8.18	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Display Wal Meeting / Coroat: COS Workation COS Workation Student Vorker TD Workstations Student Vorker TD Workstations DIGITEATION Office Office Digital Storage Digital Comparison Digital Comparison Digital Comparison Digital Comparison Digital Comparison Digital AutoWorkspace PURK LabWorkspace Office Office Office Office Digital AubWorkspace Office Office Office Office Digital AubWorkspace Office Office Office Digital AubWorkspace Office Office Office Digital AubWorkspace Office Office Digital AubWorkspace Office Office Digital AubWorkspace Office Digital Comparison Digital Co	200 860 232 586	0	200 150 100 150 120 56 40 40 40 40 40 120 50 80 80 80 80 80 80 80 80 80 8	1 1 1 1 1 2 2 2 0 0 0 1 1 1 1 1 1 1 1 1	200 1,400 150 100 150 120 112 80 0 0 0 80 80 80 80 80 80 8	0	0 0 0	30 2 2 6
7.6.1 7.8.2 7.8 7.8 7.8 7.8.3 7.8.4 7.8.5 7.8.5 7.8.5 7.8.7 7.8.8 7.8.7 7.8.10 7.8.11 7.8.12 7.8.14 7.8.15 7.8.16 7.8.17 7.8.16 7.8.17 7.8.16 7.8.17 7.8.18 7.8.17 7.8.18 7.8.16 7.8.17 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.18 7.8.19	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Receptor Station Digital Dapky Wall Meeting / Consult COS Office COS Workstation Student Uorkers Digital Context Office	200 860 232 586	0	200 150 100 150 120 56 900 80 120 56 900 80 120 300 80 120 300 80 120 300 80 120 300 300 300 300	1 1 1 1 1 2 2 2 2 2 0 0 1 1 1 1 1 1 1 1	200 1,400 150 150 100 150 120 112 80 80 0 0 0 0 0 0 0 200 80 120 120 112 80 80 80 80 80 120 160 160 100 150 100 150 100 150 100 150 120 112 80 80 80 80 80 80 80 80 80 80	0	0 0 0 2	30 2 6 6
7.8.1 7.8 7.8 7.8 7.8 7.8 7.8.4 7.8.5 7.8.6 7.8.7 7.8.6 7.8.7 7.8.8 7.8.9 7.8.10 7.8.11 7.8.12 7.8.13 7.8.14 7.8.14 7.8.15 7.8.16 7.8.17 7.8.16 7.8.17 7.8.18 7.8.17 8.19 7.8.16 7.8.17 7.8.18 7.8.14 7.8.18 7.8.14 7.8.15 7.8.14 7.8.15 7.8.20	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Raception Station Digital Display Wal Meeting / Conut COS Workstation Student Vocker TO Workstations Student Vockers DIGITAL OW Vocker TO Workstations DIGITAL FUNMANTIES Office Offic	200 860 232 586	0	200 150 100 150 40 40 40 40 120 56 56 900 80 120 300 80 120 0 80 120 80 80 120 80 120 150 80 150 150 150 150 150 150 150 15	1 1 1 1 1 2 2 2 0 0 0 1 1 1 1 1 1 1 1 1	200 1,400 150 100 150 120 112 80 0 0 0 80 80 80 80 80 80 8	0	0 0 0 2	30 2 2 6
7.6.1 7.8 7.8 7.8 7.8 7.8 7.8 7.8.5 7.8.6 7.8.7 7.8.10 7.8.10 7.8.11 7.8.12 7.8.14 7.8.16 7.8.17 7.8.16 7.8.17 7.8.16 7.8.17 7.8.16 7.8.17 7.8.16 7.8.17 7.8.17 7.8.16 7.8.17 7.8.18 7.8.17 7.8.18 7.8.16 7.8.17 7.8.18 7.8.16	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Receptor Station Digital Daptay Wall Meeting / Consult COS Office COS Workstation Student Uorkers Digital Context Office Offic	200 860 232 586 42		200 150 100 150 120 56 900 80 120 56 900 80 120 300 80 120 300 80 120 300 80 120 300 300 300 300	1 1 1 1 1 2 2 2 2 0 0 0 1 1 1 1 1 1 1 1	200 1,400 150 100 150 120 112 80 80 0 0 0 900 80 240 240 80 80 120 0 160 120 200 200	0	0 0 0	30 2 6 6 10 6
7.6.1 7.8 7.8 7.8 7.8 7.8 7.8 7.8.5 7.8.5 7.8.7 7.8.10 7.8.10 7.8.11 7.8.12 7.8.13 7.8.14 7.8.16 7.8.16 7.8.16 7.8.16 7.8.18 7.8.19 7.8.19 7.8.21 7.8.21 7.8.21 7.8.21	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Daplay Wall Meeting / Consult CDS Office CDS Workstation Student Uorkers DiGIT2ATON Office Of	200 860 232 586	0	200 150 100 150 40 40 40 40 120 56 56 900 80 120 300 80 120 0 40 80 80 80 80 120 120 150 80 80 120 150 150 150 150 150 150 150 15	1 1 1 1 1 2 2 2 2 0 0 0 1 1 1 1 1 1 1 1	200 1,400 150 100 110 120 112 80 80 80 900 80 900 80 900 80 1120 0 1120 0 80 80 120 160		0 0 0 2	30 2 6 6
7.6.1 7.8 7.8 7.8 7.8 7.8 7.8.4 7.8.5 7.8.6 7.8.7 7.8.6 7.8.7 7.8.9 7.8.10 7.8.11 7.8.12 7.8.13 7.8.14 7.8.14 7.8.15 7.8.16 7.8.17 7.8.16 7.8.17 7.8.18 7.8.17 8.19 7.8.18 7.8.14 7.8.16 7.8.14 7.8.15 7.8.14 7.8.15 7.8.14 7.8.15 7.8.14 7.8.15 7.8.14 7.8.15	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Receptor Station Digital Daptay Wall Meeting / Consult COS Office COS Workstation Student Uorkers Digital Context Office Offic	200 860 232 586 42		200 150 100 150 40 40 40 40 120 56 56 900 80 120 300 80 120 0 40 80 80 80 80 120 120 150 80 80 120 150 150 150 150 150 150 150 15	1 1 1 1 1 2 2 2 2 0 0 0 1 1 1 1 1 1 1 1	200 1,400 150 100 150 120 112 80 80 0 0 0 900 80 240 240 80 80 120 0 160 120 200 200		0 0 0	30 2 6 6 10 6
7.6.1 7.8 7.8 7.8 7.8 7.8 7.8.3 7.8.4 7.8.5 7.8.7 7.8.10 7.8.10 7.8.11 7.8.12 7.8.14 7.8.15 7.8.16 7.8.16 7.8.16 7.8.18 7.8.19 7.8.19 7.8.22 7.8.22 7.9	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Daplay Wall Meeting / Consult COS Office COS Workstation Student Uorkers Digital Consult Costers Digital Costers	200 860 232 586 42		200 150 100 120 56 40 120 56 900 80 120 900 80 120 0 0 40 40 40 120 80 120 120 120 80 120 120 120 120 120 120 120 120 120 12	1 1 1 1 1 2 2 2 0 0 0 1 1 1 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 2 2 2 1 1 1 1 1 2 2 2 2 1 1 1 1 1 1 2 2 2 2 1 1 1 1 1 1 1 1 2 2 2 2 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	200 1,400 1150 100 100 120 0 900 80 900 80 900 80 900 120 120 900 240 300 160 120 240 300 120 4,272		0 0 0	30 2 6 6 10 6
7.6.1 7.8 7.8 7.8 7.8 7.8 7.8 7.8.5 7.8.5 7.8.5 7.8.7 7.8.10 7.8.10 7.8.11 7.8.12 7.8.13 7.8.14 7.8.16 7.8.16 7.8.16 7.8.18 7.8.18 7.8.18 7.8.19 7.8.19 7.8.21 7.8.21	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Daplay Wal Meeting / Consult COS Office COS Office COS Office COS Office COS Soffice COS Monkatiston Student Uckres Digital Classroom Digitation Workstations Digitation Di	200 860 232 586 42		200 150 100 150 40 40 40 40 120 56 56 900 80 120 300 80 120 0 40 80 80 80 80 120 120 150 80 80 120 150 150 150 150 150 150 150 15	1 1 1 1 1 2 2 2 2 0 0 0 1 1 1 1 1 1 1 1	200 1,400 150 100 150 120 112 80 80 0 0 0 900 80 240 240 80 80 120 0 160 120 200 200		0 0 0	30 2 6 6 10 6
7.8.1 7.8.2 7.8 7.8 7.8.3 7.8.3 7.8.4 7.8.5 7.8.6 7.8.6 7.8.7 7.8.7 7.8.9 7.8.10 7.8.20 7.8.10 7.8.20 7.9.20 7.9.20 7.9.20 7.9.20 7.9.20 7.9.20 7.9.20 7.9.20	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Dapky Wal Meeting / Consul: COS Winder TO Workstations Student Uokers TO Workstations Student Uokers TO Workstations Digitation Lab Corrage Digital AutoMathTies Digital Mamanites Lab Lab Storage Digital Hamanites Lab Lab Storage Digital Hamanites Lab Lab Storage Digital Hamanites Lab Lab Storage Digital AutoMorkspace PURR LabWorkspace Office Office Office CISE Correct Correct Correct Correct Digital Wanditondia Editing Room Seetable Equipment Lab Storage Subtotal Knowledge Gallery Gallery Lang Digital Display Wal Large Digital Room Correct Storage	200 860 232 586 42		200 150 100 159 120 56 40 120 56 40 120 50 80 120 120 120 120 120 120 120 12	1 1 1 1 1 2 2 2 - - - - - - - - - - - - -	200 1,400 1150 100 100 100 100 100 100 80 80 80 80 80 80 80 80 120 0 0 80 80 120 100 100 100 112 120 100 112 80 80 80 80 80 80 80 80 80 80 80 80 80		0 0 0	30 2 6 6 10 6
7.8.1 7.8.7 7.8 7.8 7.8 7.8 7.8.7 7.8.5 7.8.7 7.8.7 7.8.9 7.8.10 7.8.10 7.8.11 7.8.12 7.8.13 7.8.14 7.8.16 7.8.17 7.8.16 7.8.16 7.8.16 7.8.16 7.8.16 7.8.17 7.8.16 7.8.16 7.8.17 7.8.16 7.8.16 7.8.17 7.8.16 7.8.16 7.8.17 7.8.16 7.8.16 7.8.17 7.8.16 7.8.16 7.8.17 7.8.16 7.8.16 7.8.17 7.8.16 7.8.17 7.8.16 7.8.17 7.8.16 7.8.17 7.8.16 7.8.17 7.8.16 7.8.17 7.8.17 7.8.16 7.8.17 7.8.16 7.8.17 7.8.16 7.8.17 7.8.16 7.8.27 7.9.17	Experimental Classroom Experimental Classroom Subbotal Center for Digital Scholarship (CDS) Reception Station Digital Daplay Wall Meeting / Consult COS Office COS Workstation Student Uckets US Student Workstations Student Uckets DiGIT2ATON Office	2000 8600 2232 566 42 1,920		200 150 100 152 56 40 120 56 900 80 120 100 120 56 900 80 120 120 120 120 120 120 120 12	1 1 1 1 1 2 2 2 0 0 0 1 1 1 1 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1	200 1,460 150 150 150 150 152 172 80 80 80 80 80 80 80 80 80 80 80 80 80	0	1 2 2 1 6	30 2 
7.8.1 7.8.2 7.8 7.8 7.8.3 7.8.3 7.8.4 7.8.5 7.8.6 7.8.6 7.8.7 7.8.7 7.8.9 7.8.10 7.8.20 7.8.10 7.8.20 7.9.20 7.9.20 7.9.20 7.9.20 7.9.20 7.9.20 7.9.20 7.9.20	Experimental Classroom Experimental Classroom Storage Subtotal Center for Digital Scholarship (CDS) Reception Station Digital Dapky Wal Meeting / Consul: COS Winder TO Workstations Student Uokers TO Workstations Student Uokers TO Workstations Digitation Lab Corrage Digital AutoMathTies Digital Mamanites Lab Lab Storage Digital Hamanites Lab Lab Storage Digital Hamanites Lab Lab Storage Digital Hamanites Lab Lab Storage Digital AutoMorkspace PURR LabWorkspace Office Office Office CISE Correct Correct Correct Correct Digital Wanditondia Editing Room Seetable Equipment Lab Storage Subtotal Knowledge Gallery Gallery Lang Digital Display Wal Large Digital Room Correct Storage	200 860 232 586 42		200 150 100 159 120 56 40 120 56 40 120 50 80 120 120 120 120 120 120 120 12	1 1 1 1 1 2 2 2 - - - - - - - - - - - - -	200 1,400 1150 100 100 100 100 100 100 80 80 80 80 80 80 80 80 120 0 0 80 80 120 100 100 100 112 120 100 112 80 80 80 80 80 80 80 80 80 80 80 80 80		0 0 0	30 2 6 6 10 6

7.8	Center for Digital Scholarship (CDS)								
7.8.1	Reception Station			150	1	150			
7.8.2	Digital Display Wall			100	1	100			2
7.8.3	Meeting / Consult			150	1	150			
7.8.4	CDS Office			120	1	120		1	
7.8.5	CDS Workstation			56	2	112		2	
7.8.6	Student Worker TD Workstations			40	2	80			
7.8.7	Student Lockers			40	2	80			
	DIGITIZATION								
7.8.8	Office			120	0	0		0	
7.8.9	Workstations	200		56	0	0		0	
7.8.10	Digitization Lab	860		900	1	900			
7.8.11	Lab Storage			80	1	80			
	DIGITAL HUMANITIES								
7.8.12	Office	232		120	2	240		2	
7.8.13	Digital Humanities Lab	586		300	1	300			6
7.8.14	Lab Storage	42		80	1	80			
	RESEARCH DATA REPOSITORY (PURR)								
7.8.15	Office			120	1	120		1	
7.8.16	GIS Lab/Workspace			0	0	0			
7.8.17	PURR Lab/Workspace			40	4	160			
	OTHER								
7.8.18	Digital Visualization Lab (open)			800	1	800			10
7.8.19	Digital Audio/Video/Media Editing Room			200	1	200			
7.8.20	Specialty Equipment Lab			300	1	300			
7.8.21	Long Term Project Room			180	1	180			6
7.8.22	General Storage			120	1	120			
	Subtotal	1,920	0			4,272	0	6	24
7.9	Knowledge Gallery								
7.9.1	Gallery all in			1,200	1	1,200			
7.9.2	Large Digital Display Wall			100	1	100			
7.9.3	Reception			80	1	80			
7.9.4	Gallery Storage			120	1	120			
	Subtotal	0	0			1,500	0	0	0
	NEW PROGRAM SUBTOTAL	3.639	0			16.260	0	11	222

Easy access, away from quiet zones	
1 in South Campus Hub	
50 in South Campus Hub	
6 in South Campus Hub	
6 in South Campus Hub	Acoustically enclosed furniture pods
3 in South Campus Hub	Acoustically enclosed furniture pods
18 in South Campus Hub	
Near CDS	
Retail Display	
Book / Scholarship Display	
Includes AV equipment / rack	
Hightops adjacent to main circulation corridors	
Light, moveable	
Light, moveable	
-9-11	
Movile lounge seating around Media Wall	
Adjacen to Media Wall	
Interior / Exterior Visibility; Part of 24/7 Accessible Zone	Themed "local" and/or to library "brand"
Access to dock	
Remote to service point	
Lactation, baby changing, refrigerator, water	
Castation, baby enanging, reingerator, water	
based on hoose mail, service counter moved to	
Near CDS (Jenna Rickus)	
"black box" classroom;	Doubles as CDS event space
Includes AV equipment / rack	
Near A/SC and Maker Space	
	H

	Neal A/SC and Maker Space	
W05		
620		
310		6'-persons (Shared with others)
310	Head of CDS	
310	Administrative Support	
310		
455		
310	See Digital Programming above	
310	See Digital Programming above	
530		
535		
310	Grow by 1	
250	Supplement with Maker Space	
255		
	Currently in WALC	
310		
250	See Data Visualization Lab below	
310	Graduage Assistants	
530	Currently in WALC but moves with CDS	Workspace / Lab with Center Seminar Table 10-12 persons
530	Higher quality than One-Button	
250		
410		6-8 persons; shared room with secure storage
730		
	Proximity to Special Collections / Archives	
620		Flexible display
620	For digital content display	
W05		
625		



	PROGRAMMED SERVICES		EXISTING				
	1.0 Access Services	3,891		2,292	180	6	10
	2.0 Learning Commons	7,494		4,670	90	0	127
	3.0 Library Collection	21,727		18,193	29,745	0	66
	4.0 Special Collections	194		0	0	0	0
	5.0 Seating + Collaboration	27,999		26,910	0	0	1,070
	6.0 Library Operations	3,121		9,816	0	88	0
	7.0 Partners + Special Programs	3,639		16,260	0	11	222
	PROGRAMMED SERVICES SUBTOTAL	68,065		78,141	30,015	105	1,495
9.0	GROSSING	Factor	G.S.F.	N.S.F.	Factor		G.S.F.
	Program Multiplier	1.88			1.52		
9.1	Fit Factor		0	78,141	0.050		3.907
9.1	Building Services/Toilets		0	78,141	0.100		7.814
9.2	Circulation		0	89,862	0.200		17,972
9.3	Construction		0	107,835	0.100		10,783
	ADDITIONAL GROSSING SUBTOTAL						40,477
*	TOTAL BUILDING AREA						
	8.0 Programmed Services		68,065				78
	9.0 Additional Grossing		59,731				40
	BUILDING TOTAL		127,796				118
				Existing HSSE			127.
				Programmed HSSE			118

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Delta -7.2% -9,178 New Program 13,492 SF Additional Seats 2,164 Seats



### South Hub (not including Special Collections)

Access Services
Learning Commons
Library Collections
Special Collections
Seating + Collaboration
Operations
Partners + Special Programs

	EXISTING	2022 FULL PROGRAM	FICM	1	
Space Type	N.S.F. Seats	Area Qty. N.S.F. LF Staf	f Seats Code	Critical Adjacency	Functional Description / Special F.F. & E
0 ACCESS SERVICES		2022 PROGRAM			1
ACCESS SERVICES		2022 PROORAM	(	_	
SITE 2 ACCESS SERVICES					
1.2.1 Circulation Lib / Access Servic 1.2.2 Reserve Shelving	Desk	150 1 150 2 10 3 30 54	310	-	Chink shahing O high fay madial shahing
1.2.2 Reserve Shelving 1.2.3 Holds		10 3 30 54	420		6-high shelving; 8-high for medial shelving 6-high shelving
1.2.4 Textbook Shelving		10 3 30 54	420		6-high shelving
1.2.5 Loanable Equipment Storage		10 5 50	420		Lockable cabinets / carts
1.2.6 Lost & Found		10 1 10 64 1 64 1	455	<b>T</b> 11 11 11 1 17 1 1	(1) 4-high lateral file or cabinet
1.2.7 Reference Kiosk 1.2.8 Research / Learning Support K	insk	<u>64</u> 1 64 1 64 1 64 1	455	Touchdown style kiosk near or part of circ desk. Touchdown style kiosk near or part of circ desk.	
1.2.9 Main Entry Security Desk		64 1 64 1	310	Todandown style woak near or part of dro deak.	Staffed security desk near entry/exit point
1.2.10 Ready Reference Collections		10 1 10 18	420		(2) 3-high shelving for ready reference materials
1.2.11 Gallery   Display   Showcase		200 1 200	620		
1.2.12 Marketplace 1.2.13 Marketplace Seating		300 1 300 35 4 140	4 620		New and noteworthy:spine out mixed with face-out display Short term lounge seating
1.2.13 Marketplace Sealing 1.2.14 Consultation Room		80 1 80	4 625 350		2-3 persons
1.2.15 Drop in Services		80 1 80	310		2-3 persons Activities that may come in and out such as academic advi correspondentiation, beath contrast, oto
1.2.16 Consultation Waiting Area		100 1 100	2 315	Adjacent to consult room & circ desk	-
1.2.17 Express Computers 1.2.18 Express Printers		20 10 200 15 2 30	455		Stand-up stations
1.2.19 Express Copy/Scan		25 2 50	455	Adjacent to express computers Adjacent to express computers	
1.2.20 Digital Signage		20 1 20	455	Adjustin to express comparers	spine out mixed with face-out display
1.2.21 Self-Check Stations		25 2 50	455		At main entry
ACCESS SERVICES SUBTO	TAL 0	0 1,752 180 5	6		
D LEARNING COMMONS		G 2022 PROGRAM			
SITE 2 LEARNING COMMON	S				
2.1 Pop Up Consultation Kiosk		40 3 120	455		1 per fl; Can double as a stand up OPAC station(s)
2.2 Public Computers		30 0 0	0 220	Captured in "other seating"	Sized for 2 to share dual monitor
2.3 Popular Reading Area		35 10 350	10 410	seats at 2-person or 3-person tables.	Shelving captured under "collections"
2.4 Learning Commons Moveable	Seating	30 30 900	30 410		Mix of wired, mobile seating & tables
2.5 "Idea Box" Display		150 1 150 350 1 350	6 620	-	Participatory display area with active change
2.6 Large Media Wall 2.7 Pop-Up Presentation/Gatherin		350 1 350 500 1 500	6 <u>620</u> 17 <u>610</u>	Supported by large media wall	Multi-panel display with moveable lounge seating Semi-Enclosed area for impromptu presentations for +/- 2
2.8 Popular / Leisure Collection / J		10 10 100 90	420	- sponed by large model well	3-high shelving;
2.9 Group Study Room - Small		100 12 1,200	48 410		4-person group rooms;
2.10 Group Study Room - Medium		150 2 300	12 410		6-person group rooms;
2.11 Collaborative Group Seating		30 30 900	30 410		groups of 4-6 seating arrangements with technology medi
2.12 Collaborative High Table Seati 2.13 Lounge w/ Tablet Arm	9	25 20 500 35 20 700	20 <u>410</u> 20 <u>410</u>	┥ ╞────	
2.13 Lounge w/ Tablet Arm 2.14 Print Lab		<u>35 20 700</u> 500 1 500 1	20 410 455	Touchdown for staff or student worker	color copy/print/scan; 2 kickstart copiers; scanners; plotter;
2.15 "One-Button" Production		150 1 150	530		-pypersection and supports, sourced a, protect,
2.16 Light Board Presentation Prod		150 1 150	530		
2.17 Sound Recording/Podcast Cap	ture	100 1 100	530		
2.18 Learning Commons Storage		100 3 300	455		1 per floor
2.19 Student Lockers 2.20 Orientation Kiosk/ Digital Wayf	nding	4 80 320 20 5 100	455	┥ ╞────	18" X 24" X 1.18" 3-high lockers; power for recharging 1 per floor; 2 on entry floor level
				-	r por root, z on energinour idver
LEARNING COMMONS SUB	OTAL 0	0 7,690 90	1 199		
0 LIBRARY COLLECTION	EXISTIN	G 2022 PROGRAM			
0 LIBRARY COLLECTION	EXISTIN	G 2022 PROGRAM			
D LIBRARY COLLECTION	EXISTIN	G 2022 PROGRAM		Use collections to define and thematize study spaces	Visible, browsing collection
Collections	EXISTIN			Use collections to define and thematize study spaces	
Collections 3.1 Themed Collection 3	EXISTIN	10 40 400 720	420	Use collections to define and thematize study spaces	6-high shelving
Collections           3.1         Thermed Collection 3           3.2         Thermed Collection 4		10 40 400 720 10 40 400 360	420	Use collections to define and thematize study spaces	
Collections 3.1 Themed Collection 3		10 40 400 720		Use collections to define and thematize study spaces	6-high shelving
Collections           3.1         Thermed Collection 3           3.2         Thermed Collection 4		10 40 400 720 10 40 400 360	420	Use collections to define and thematize study spaces	6-high shelving
Collections     Themed Collection 3     Themed Collection 4     LIBRARY COLLECTION SUB	TOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0	420	Use collections to define and thematize study spaces	6-high shelving
Collections     Themed Collection 3     Themed Collection 4     LIBRARY COLLECTION SUB		10 40 400 720 10 40 400 360	420	Use collections to define and thematize study spaces	6-high shelving
Collections     Themed Collection 3     Themed Collection 4     LIBRARY COLLECTION SUB	TOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0	420	Use collections to define and thematize study spaces	6-high shelving
Collections 3.1 Themed Collection 3 3.2 Themed Collection 4 LIBRARY COLLECTION SUB SPECIAL COLLECTIONS SPECIAL COLLECTIONS	TOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0	0	Use collections to define and thematize study spaces	G-tigh shelving 3-High shelving
Collections 3.1 Themed Collection 3 3.2 Themed Collection 4 LIBRARY COLLECTION SUB SPECIAL COLLECTIONS SPECIAL COLLECTIONS 4.1 No Special Collections	TOTAL 0 EXISTIN	10         40         720           10         40         400         720           10         40         400         360           0         809         1,080         0           2022         PROGRAM         0         0	0 420	Use collections to define and thematize study spaces	G-tigh shelving 3-High shelving
Collections 3.1 Themed Collection 3 3.2 Themed Collection 4 LIBRARY COLLECTION SUB SPECIAL COLLECTIONS SPECIAL COLLECTIONS	TOTAL 0 EXISTIN	10         40         400         720           10         40         400         360           0         800         1,080         0	0	Use collections to define and thematize study spaces	G-tigh shelving 3-High shelving
Collections 3.1 Themed Collection 3 3.2 Themed Collection 4 LIBRARY COLLECTION SUB SPECIAL COLLECTIONS SPECIAL COLLECTIONS 4.1 No Special Collections	TOTAL 0 EXISTIN	10         40         720           10         40         400         720           10         40         400         360           0         809         1,080         0           2022         PROGRAM         0         0	0 420	Use collections to define and thematize study spaces	G-tigh shelving 3-High shelving
Collections 3.1 Themed Collection 3 3.2 Themed Collection 4 LIBRARY COLLECTION SUB SPECIAL COLLECTIONS 4.1 No Special Collections SPECIAL COLLECTIONS BU SPECIAL COLLECTIONS BU	TOTAL 0 EXISTIN STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           2         2022 PROGRAM         0         0           0         0         0         0         0	0 420	Use collections to define and thematize study spaces	G-tigh shelving 3-High shelving
Collections 3.1 Themed Collection 3 3.2 Themed Collection 4 LIBRARY COLLECTION SUB SPECIAL COLLECTIONS 4.1 No Special Collections SPECIAL COLLECTIONS BU SPECIAL COLLECTIONS BU	TOTAL 0 EXISTIN STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           2         2022 PROGRAM         0         0           0         0         0         0         0	0 420	Use collections to define and thematize study spaces	G-tigh shelving 3-High shelving
Collections 3.1 Themed Collection 3 3.2 Themed Collection 4 LIBRARY COLLECTION SUB SPECIAL COLLECTIONS 4.1 No Special Collections SPECIAL COLLECTIONS SU 5.1 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	TOTAL 0 EXISTIN STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           2         2022 PROGRAM         0         0           0         0         0         0         0	0 420	Use collections to define and thematize study spaces	G-tigh shelving 3-High shelving
Collections 3.1 Themed Collection 3 3.2 Themed Collection 4 LIBRARY COLLECTION SUB D SPECIAL COLLECTIONS 4.1 No Special Collections SPECIAL COLLECTIONS BU	TOTAL 0 EXISTIN STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           2         2022 PROGRAM         0         0           0         0         0         0         0	0 420	Use collections to define and thematize study spaces	G-tigh shelving 3-High shelving
Collections Collections Collection 3 Collection 3 Collection 4 Collection 4 Collection 4 Collection 4 Collections	TOTAL 0 EXISTIN STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           10         40         400         360           10         40         400         360           10         2022         PROGRAM           0         0         0         0           0         0         0         0         0           10         2022         PROGRAM         30         140         4,200	0 0 420 0 420 420 420 420 420	Use collections to define and thematize study spaces	G-tigh shelving 3-High shelving
Collections 3.1 Themed Collection 3 3.2 Themed Collection 4 LIBRARY COLLECTION SUB D SPECIAL COLLECTIONS 4.1 No Special Collections SPECIAL COLLECTIONS SU D SEATING + COLLABORATIC Quiet Seating 5.1 Carrel Seating 5.2 Table Seating 5.2 Table Seating	TOTAL 0 EXISTIN STOTAL 0	10         40         720           10         40         400         360           10         40         400         366           0         800         1,080         0           2022         PROGRAM         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         140         4,200         22         175         4,375         1	0 420 0 420 0 420 0 420 420 420	Use collections to define and thematize study spaces	G-High shelving     3-High shelving     2 person counter for registration and circulation/reference
Collections Collections Collection 3 Collection 3 Collection 4 Collection 4 Collection 4 Collection 4 Collection 4 Collections SPECIAL Collections SPECIAL Collections Collections SPECIAL Collections SPECIAL Collections SPECIAL Collections Collect	TOTAL 0 EXISTIN STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           10         40         400         360           10         40         400         360           10         2022 PROGRAM           0         0         0         0           0         0         0         0         0           10         2022 PROGRAM         2022 PROGRAM           10         2021 PROGRAM         2022 PROGRAM           20         140         4,200         2           2,000         1         2,000         1	0 0 420 0 420 420 420 420 420 4	Use collections to define and thematize study spaces	6-High shelving 3-High shelving 2 person counter for registration and circulation/reference 2 person counter for registration and circulation/reference
Collections 3.1 Themed Collection 3 3.2 Themed Collection 4 LIBRARY COLLECTION SUB SPECIAL COLLECTIONS 4.1 No Special Collections SPECIAL COLLECTIONS SU SEATING + COLLABORATIC Quiet Seating 5.1 Carrel Seating 5.2 Table Seating 5.3 Outel Reading Room 5.4 Small Study Room	TOTAL 0 EXISTIN STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           2022 PROGRAM         0         0         0           0         0         0         0         0           0         0         0         0         0           30         140         4,200         225         175         4,375           2,000         1         2,000         10         1,000         1	0 420 0 420 0 420 0 420 420 420	Use collections to define and thematize study spaces	G-High shelving     3-High shelving     2 person counter for registration and circulation/reference
Collections     Collections     Themed Collection 3     Themed Collection 4     LIBRARY COLLECTION SUB     SPECIAL COLLECTIONS     SPECIAL COLLECTIONS     SPECIAL COLLECTIONS     SPECIAL COLLECTIONS SU     SEATING + COLLABORATIC     Quiet Seating     Carrel Seating     Carrel Seating     Carrel Seating     Carlel Seating     Carl	TOTAL 0 EXISTIN STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           2022 PROGRAM         0         0         0           0         0         0         0         0           0         0         0         0         0           30         140         4,200         225         175         4,375           2,000         1         2,000         10         1,000         1	0 420 0 420 0 420 0 420 420 420	Use collections to define and thematize study spaces	6-High shelving 3-High shelving 2 person counter for registration and circulation/inference 2 person counter for registration and circulation/inference
Collections Collections Collections Collection 3 Collection 3 Collection 4 Collection 4 Collection 4 Collection 4 Collection 4 Collections	INTAL 0  STOTAL	10         40         400         720           10         40         400         360           0         800         1,080         0           10         2022 PROGRAM         0         0           0         0         0         0         0           0         0         0         0         0           0         140         4,200         2022 PROGRAM           2021         2022 PROGRAM         2021         2022 PROGRAM           30         140         4,200         201           2,000         1         2,000         1           100         10         1,000         103           105         15         525	0 0 420 0 420 420 420 420 420 4	Use collections to define and thematize study spaces	6-High shelving 3-High shelving 2 person counter for registration and circulation/inference 2 person counter for registration and circulation/inference
Collections Collections Collections Collection 3 Collection 3 Collection 4 Collection 4 Collection 4 Collection 4 Collections	INTAL 0  STOTAL	10         40         400         720           10         40         400         360           0         800         1,080         0           10         2022 PROGRAM         0         0           0         0         0         0         0           0         0         0         0         0           0         140         4,200         2022 PROGRAM           2021         2022 PROGRAM         2021         2022 PROGRAM           30         140         4,200         201           2,000         1         2,000         1           100         10         1,000         103           105         15         525	0 0 420 0 420 420 420 420 420 4	Use collections to define and thematize study spaces	6-High shelving 3-High shelving 2 person counter for registration and circulation/reference 2 person counter for registration and circulation/reference
Collections Collections Collections Collection 3 Collection 3 Collection 4 Collection 4 Collection 4 Collections C	INTAL 0  STOTAL	10         40         400         720           10         40         400         360           0         800         1,080         0           2022 PROGRAM         2022 PROGRAM         0         0           0         0         0         0         0           0         0         0         0         0           0         140         4,200         2022 PROGRAM           30         140         4,200         2021 PROGRAM           2000         1         2,000         1           100         10         1,000         35         15           0         12,100         0         0	420           0           420           0           420           0           420           0           420           0           420           0           420           0           420           0           420           0           420           0           420           0           410           410           410           410           410           410           410           410	Use collections to define and themalize study spaces	6-High shelving 3-High shelving 2 person counter for registration and circulation/reference 2 person counter for registration and circulation/reference
Collections 3.1 Themed Collection 3 3.2 Themed Collection 3 3.2 Unterned Collection 4 UBRARY COLLECTION SUB D SPECIAL COLLECTIONS 4.1 No Special Collections SPECIAL COLLECTIONS SU D SEATING + COLLABORATIC Cutet Seating 5.1 Carrel Seating 5.2 Table Seating 5.3 Outet Reading Room 5.4 Small Study Room 5.5 Outet Longe Seating Subtrotal Collaborative Seating 5.6 Closed Group Rooms (small)	ITOTAL 0  ITOTAL	10         40         400         720           10         40         400         380         .           10         40         400         380         .           10         40         400         380         .           10         40         400         380         .           10         10         1,080         0           10         0         0         .         .           0         0         0         .         .           0         0         0         .         .           0         0         0         .         .           0         0         0         .         .           25         175         4.375         .         .           25         175         4.375         .         .           100         10         1.00         .         .         0           100         10         1.00         .         .         .           100         4         400         .         .         .	0         420           0         420           0         420           0         420           0         420           0         420           0         420           175         410           40         410           437         410           20         410	Use collections to define and thematize study spaces	6-High shelving 3-High shelving 2 person counter for registration and circulation/reference 2 person counter for registration and circulation/reference
Collections     Collections     Collection 3     Thermed Collection 3     Default Collection 4     LIBRARY COLLECTION SUB     SPECIAL COLLECTIONS     SPECIAL COLLECTIONS     SPECIAL COLLECTIONS SU     SPECIAL COLLECTIONS SU     SEATING + COLLABORATIC     Quiet Seating     Collections     Collections     Subtotal     Collaborative Seating     Subtotal     Collaborative Seating     Subtotal     Collaborative Seating     Subtotal     Collaborative Seating     Side Collections     Subtotal     Collaborative Seating     Side Collections     Subtotal     Collaborative Seating     Side Collaborative Seating     Sid	INTAL 0  INTAL 0  STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           10         40         400         360           0         800         1,080         0           10         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           10         140         4,200         2           25         175         4,375         2           2000         1         2,000         1           100         10         1,000         0           100         1         2,100         0           100         1         150         1	420           0           140           175           410           175           410           175           410           115           410           15           410           410           410           410           410           410           410           410           410           410           410           410           410           410           410	Use collections to define and thematize study spaces	G-High shelving     3-High shelving     2 person counter for registration and circulation/reference
Collections 3.1 Themed Collection 3 3.2 Themed Collection 3 3.2 IThemed Collection 4 LIBRARY COLLECTION SUB SPECIAL COLLECTIONS 4.1 No Special Collections SPECIAL COLLECTIONS SU 5.1 Carrel Seating 5.2 Table Seating 5.2 Table Seating 5.3 Outel Reading Room 5.4 Small Study Room 5.5 Cult Lourge Seating Subtotal Collaborative Seating 5.6 Closed Group Rooms (mail) 5.7 Closed Group Rooms (mail) 5.8 Open Reg Group Raoms (mail) 5.9 Closed Group Rooms (mail) 5.0 Closed Group Rooms (mail) 5.	INTAL 0  INTAL 0  STOTAL 0	10         40         400         720           10         40         400         380         0           0         800         1,080         0           2022         2022         2022         2022           0         0         0         0           0         0         0         0           0         0         0         0           0         0         0         0           2022         PROGRAM         2022           25         175         4,375           2,000         1         2,000           100         10         1,000           35         15         525           0         12,100         0           100         4         400           100         1         150           100         3         300	0         420           0         420           0         420           0         420           0         420           0         420           0         420           175         410           40         410           437         410           20         410		6-High shelving 3-High shelving 2 person counter for registration and circulation/reference
Collections Collection 3 Collection 3 Collection 3 Collection 3 Collection 4 Collection 4 Collection 4 Collection 8 Collection 8 Collections Collectio	INTAL 0  INTAL 0  STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           2022 PROGRAM         2022 PROGRAM         0         0           0         0         0         0         0           0         0         0         0         0           2022 PROGRAM         2022 PROGRAM         2022 PROGRAM           30         140         4,200         2           25         175         4,375         2           2001         12,000         1         2           100         10         1,000         1           35         15         526           150         1         150         1           100         3         300         1           30         40         1,200         1         1           30         40         1,200         1         1           30         40         1,200         1         1	0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         410           15         410           437         410           20         410           8         410           12         410           40         410	Use collections to define and thematize study spaces	G-High shelving     3-High shelving     2 person counter for registration and circulation/reference
Collections     Collection     Collection     Collection     Collection     Collection     Collection     Collection     SPECIAL COLLECTION     SPECIAL COLLECTIONS     SEATING + COLLABORATIC     Curef Seating     Collaborative Seating     Scatter     Statistic     Collaborative Seating     Subtotal     Collaborative Seating     Scatter     Subtotal     Collaborative Seating     Scatter	INTAL 0  INTAL 0  STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           3         2022 PROGRAM           0         0         0         0           0         0         0         0         0           0         0         0         0         0           13         2022 PROGRAM         202         200           140         4,200         2         2           25         175         4,375         2           2000         1         2,000         1           100         10         1,000         3           100         1         525         0           100         1         150         1           150         1         150         1           100         3         300         0         0	0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         410           15         410           437         410           20         410           8         410           12         410           40         410		G-High shelving     3-High shelving     2 person counter for registration and circulation/reference
Collections Collection 3 Collection 3 Collection 3 Collection 3 Collection 4 Collection 4 Collection 4 Collection 4 Collection 8 Collections Collectio	INTAL 0  INTAL 0  STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           2022 PROGRAM         2022 PROGRAM         0         0           0         0         0         0         0           0         0         0         0         0           2022 PROGRAM         2022 PROGRAM         2022 PROGRAM           30         140         4,200         2           25         175         4,375         2           2001         12,000         1         2           100         10         1,000         1           35         15         526           150         1         150         1           100         3         300         1           30         40         1,200         1         1           30         40         1,200         1         1           30         40         1,200         1         1	0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         410           15         410           437         410           20         410           8         410           12         410           40         410		G-High shelving     3-High shelving     2 person counter for registration and circulation/reference
Collections Collection 3 Collection 3 Collection 3 Collection 3 Collection 4 Collection 4 Collection 4 Collection 8 Collection 8 Collections Collectio	INTAL 0  INTAL 0  STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           2022 PROGRAM         2022 PROGRAM         0         0           0         0         0         0         0           0         0         0         0         0           2022 PROGRAM         2022 PROGRAM         2022 PROGRAM           30         140         4,200         2           25         175         4,375         2           2001         12,000         1         2           100         10         1,000         1           35         15         526           150         1         150         1           100         3         300         1           30         40         1,200         1         1           30         40         1,200         1         1           30         40         1,200         1         1	0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         410           15         410           437         410           20         410           12         410           40         410		G-High shelving     3-High shelving     2-High shelving     2-Jenson counter for registration and circulation/inference     person counter for registration and circulation/inference     https://www.common.co
Collections Collection 3 Collection 3 Collection 3 Collection 3 Collection 4 Collection 4 Collection 4 Collection 4 Collection 8 Collections Collectio	INTAL 0  INTAL 0  STOTAL 0	10         40         400         720           10         40         400         360           0         800         1,080         0           2022 PROGRAM         2022 PROGRAM         0         0           0         0         0         0         0           0         0         0         0         0           2022 PROGRAM         2022 PROGRAM         2022 PROGRAM           30         140         4,200         2           25         175         4,375         2           2001         12,000         1         2           100         10         1,000         1           35         15         526           150         1         150         1           100         3         300         1           30         40         1,200         1         1           30         40         1,200         1         1           30         40         1,200         1         1	0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         410           15         410           437         410           20         410           12         410           40         410		G-High shelving     3-High shelving     2-High shelving     2-Jenson counter for registration and circulation/inference     person counter for registration and circulation/inference     https://www.common.co
Collections 3.1 Themed Collection 3 3.2 Themed Collection 3 3.2 Themed Collection 4 LIBRARY COLLECTION SUB SPECIAL COLLECTIONS 4.1 No Special Collections SPECIAL COLLECTIONS SU SEATING + COLLABORATIC Cutet Seating 5.1 Carrel Seating 5.2 Table Seating 5.2 Table Seating 5.3 Quiet Reading Room 5.4 Small Study Rooms 5.5 Cutet Longe Seating 5.6 Collectoral Study Rooms 5.7 Collectoral Study Rooms 5.6 Collectoral Study Rooms 5.6 Collectoral Study Rooms 5.7 Collectoral Study Rooms 5.6 Collectoral Study Rooms 5.7 Collectoral Study Rooms 5.6 Collectoral Study Rooms 5.7 Collectoral Study Rooms 5.9 Open Moveable Table Seating 5.10 Mobile White Boards 5.10 Mobile White Boards 5.11 Seminar 5.12 Computer Labb	INTAL 0  INTAL 0  STOTAL 0	10         40         400         720           10         40         400         380         .           10         40         400         380         .           10         40         400         380         .           10         40         400         380         .           10         10         10.86         0           10         0         0         .         .           0         0         0         .         .           0         0         0         0         0           0         0         0         0         0           10         1.200         .         .         .           25         175         4.375         .         .           2.001         1         2.000         .         0           100         1         100         0         .           100         1         1.00         .         .           1100         3         .         .         .         .           100         3         .         .         .         .           100	0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           175         410           40         410           15         410           437         410           12         410           12         410           80         410           16         250	Adjacent to Café	G-high shelving     3-high shelving     2 person counter for registration and circulation/reference
Collections  Collections  Collection 3  Collection 3  Collection 4  Collection 4  Collection 4  Collections	Image: state of the state	10         40         400         720           10         40         400         360         0           10         40         400         360         0           10         40         400         360         0           10         40         400         360         0           10         2022 PROGRAM         2022 PROGRAM         0         0           0         0         0         0         0         0           20         175         4.375         -         -           2000         1         2.000         -         -           100         10         1.000         -         -           100         4         400         -         -           100         4         400         -         -           100         4         400         -         -           100         4         400         -         -           100         2,350         0         0         -           100         3         300         -         -           12         2,5         300         0         -	420           0           1           420           0           420           0           420           0           420           0           420           0           420           0           420           0           420           420           420           410           457           400           400           400           400           400           400           400           400           400           400           400           400           410           410           420           410           410           410           410           410           410           410           410           410           410           410           410           410           410           4	Adjacent to Café	G-High shelving     G-High shelving     G-High shelving     Z person counter for registration and circulation/reference     Device of the set of the
Collections Collection SPECIAL COLLECTIONS SPECIAL COLLECTIONS Collection SPECIAL COLLECTIONS Collection SPECIAL COLLECTIONS Collection Collect	Image: constraint of the second se	10         40         400         720           10         40         400         380         .           10         40         400         380         .           10         40         400         380         .           10         40         400         380         .           10         10         10.86         0           10         0         0         .         .           0         0         0         .         .           0         0         0         0         0           0         0         0         0         0           10         1.200         .         .         .           25         175         4.375         .         .           2.001         1         2.000         .         0           100         1         100         0         .           100         1         1.00         .         .           1100         3         .         .         .         .           100         3         .         .         .         .           100	0         420           0         420           0         420           0         420           0         420           0         420           0         420           0         420           175         410           40         410           15         410           437         410           12         410           12         410           80         410           16         250	Adjacent to Café	G-high shelving     3-high shelving     2-high shelving     2 person counter for registration and circulation/reference

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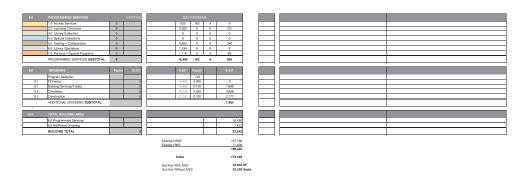
				-	
	Other Seating				
5.16	Computer Stations (clustered)	30 30 900 30	410		20 stations per floor (not including 1F)
5.10	Computer Stations (Clustered) Computer Stations (1F)	30 30 900 30 30	410		30 station cluster
5.18	Special Projects Room	180 2 360 16	350	Long term project rooms	Double as group study rooms
	Subtotal 0 0	1,710 0 0 61			
	SEATING+COLLABORATION SUBTOTAL 0 0	18,800 0 0 679			
6.0	LIBRARY OPERATIONS EXISTING	2022 PROGRAM			
			$\neg$		
6.1	Access Services				
6.1.1	Office	120 2 240 1 56 4 224 4	310		
6.1.2	Workstations         0         0	56 4 224 4 464 0 5 0	310		
		404 0 0			
6.2	Shared Resources				
6.2.1	Staff Kitchenette Staff Break Room	80 1 80 120 1 120	315 315		
6.2.2 6.2.3	Distributed Copy/Print	40 1 40	315		
6.2.4	General Storage	100 1 100	730		
6.2.5	Small Meeting Room	120 1 120	v		
6.2.6	Wellness/Lactation Room	60 1 60	315		
	Subtotal 0 0	520 0 0 0			
6.3	Misc. B.O.H.				
6.3.1	General Library Storage	200 1 200	455		
6.3.2	General Stockroom	200 1 200	730		
6.3.3	Dock	0 0 0	W04	Shared with Partner	
6.3.4	Shipping & Receiving	300 0 0	750	Shared with Partner	
6.3.5	Outgoing Holding	100 1 100	750	Shared with Partner	
6.3.6	Mailroom	100 0 0 120 1 120	750	Shared with Partner	
6.3.7 6.3.8	Housekeeping Central Storage Housekeeping Floor Closets & Storage	120         1         120           80         2         160	730	Shared with Partner Shared with Partner	
0.3.0	Housekeeping Floor Closets & Storage 0 0	780 0 0 0	100	Since du Will F di Ulti	
	STAFF + SUPPORT AREAS SUBTOTAL 0 0	1,764 0 5 0		L	
L	U U	1,70% 0 5 0			
7.0	PARTNERS + SPECIAL PROGRAMS EXISTING	2022 PROGRAM			
7.1	Virtual Learning Hub			Easy access, away from quiet zones	
7.1.1	Arrival / Checking	100 1 100	W05		
7.1.2	Single Pods Double Pods	35         50         1,750         50           45         6         270         12	410		
	2-Person Rooms	45 6 270 12 60 6 360 12			
7.1.4			410		
7.1.4	3-Person Rooms	90 3 270 12	410		Acoustically enclosed furniture pods Acoustically enclosed furniture pods
	3-Person Rooms Mobile Whiteboards	90 <u>3</u> 270 <u>12</u> 6 18 108			
7.1.5	3-Person Rooms	90 3 270 12	410		
7.1.5 7.1.6	3-Person Rooms Mobile Whiteboards Subtotal 0 0	90 <u>3</u> 270 <u>12</u> 6 18 108	410	Interior / Exterior Visibility; Part of 24/7 Accessible	Acoustically enclosed furniture pods
7.1.5	3-Person Rooms Mobile Whiteboards	90 <u>3</u> 270 <u>12</u> 6 18 108	410	Interior / Exterior Visibility; Part of 24/7 Accessible Zone	
7.1.5 7.1.6 7.2 7.2.1	OPerson Rooms	90         3         270         12           6         18         108         1           1,858         0         0         86           400         1         400         4	410 410 630	Interior / Exterior Visibility, Part of 24/7 Accessible Zone	Acoustically enclosed furniture pods
7.1.5 7.1.6 7.2 7.2.1 7.2.2	3-Person Rooms Mobile Whitebarrds Subtotal Cafe Servery Area / POS Outwing Space 526	00         3         270         12           6         18         108         1           1         1.858         0         0         86           400         1         400         4         200         1           200         1         200         1         200         1	410 410 630 630	Zone	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.22 7.23	S-Person Rooms Mobile Withleboards Saddotal 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00         3         270         12           6         18         108         0         86           1,858         0         0         86           400         1         400         4         200         1         200         200         1	410 410 630 630 635	Zone Access to dock	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.22 7.23 7.24	3-Person Rooms	00         3         270         12           6         18         108         -           1         1,858         0         0         95           400         1         400         4         -         200         1         200         -         -         200         1         200         -         100         1         100         -	410 410 630 630 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.22 7.23	3-Person Rooms Abdole Whiteboards Addole Whiteboards 0 0 0 Cafe Servery Area / POS 400 Caucing Space 526 Food Prep / Storage Wash Refigurated Storage 0 Dy Storage 0	00         3         270         12           6         18         108         0         86           1,858         0         0         86           400         1         400         4         200         1         200         200         1	410 410 630 630 635	Zone Access to dock	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.2 7.23 7.23 7.24 7.25	Person Rooms     Mobile Voltaboards     Mobile Voltaboards     Sadotat     0     0     Cafe     Servery Area / POS     400     Outuring Space     526     Food Pray / Storage Wash     Refigurated Storage     trooming/outgoing holding     trooming/outgoing holding     Tooming/outgoing holding	00         3         270         12           6         18         108             1,858         0         0         86           400         1         400         4           200         1         200            200         1         200            100         1         100            100         1         100            100         1         100            100         1         100            101         100	410 410 630 630 635 635 635 635	Zone Access to dock Remote to service point Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.22 7.23 7.24 7.25 7.26	3-Person Rooms Autor Market State St	00         3         270         12           6         18         108         -           1         1,858         0         0         95           400         1         400         4         -         200         1         200         -         -         100         1         100         -         100         1         100         -         100         1         100         -         100         1         100         -         100         1         100         -         100         -         100         -         100         -         -         100         -         -         100         -         <	410 410 630 635 635 635 635 635	Zone Access to dock Remote to service point Remote to service point Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.22 7.23 7.24 7.25 7.26 7.27	2-Person Rooms Ltoble Whiteboards Sectors Cafe Servery Area / POS Cafe Servery	00         3         270         12           6         18         108             1,858         0         0         86           400         1         400         4           200         1         200         200           100         1         00         100           100         1         100         100           100         1         100         100           100         1         100         100           100         1         100         100	410 410 630 635 635 635 635 635	Zone Access to dock Remote to service point Remote to service point Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.22 7.23 7.24 7.25 7.26	SPesson Rooms     Mobile Voltaboards     Mobile Voltaboards     Sadotat     0     0     Cafe     Servery Area / POS     400     Outuring Space     526     Food Pray 5 Torage Wash     Refigurated Storage     trooming/outgoing holding     trooming/outgoing holding     Tooming/outgoing holding	00         3         270         12           6         18         108             1,858         0         0         86           400         1         400         4           200         1         200         200           100         1         00         100           100         1         100         100           100         1         100         100           100         1         100         100           100         1         100         100	410 410 630 635 635 635 635 635	Zone Access to dock Remote to service point Remote to service point Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.22 7.23 7.24 7.25 7.26 7.27	3-Person Rooms Additional Additio	00         3         270         12           6         18         108         -           1         1,858         0         0         965           400         1         400         4         -           200         1         200         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           30         1         80         1         -           30         8         240         8         8	410 410 630 635 635 635 635 635 635 635 635 410	Zone Access to dock Remote to service point Remote to service point Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.23 7.24 7.25 7.26 7.27 7.31 7.31	Person Booms     Polsens	00         3         270         12           6         18         108         1           1         1,858         0         0         86           400         1         400         4         200         1           200         1         200         1         200         1           200         1         200         1         100         1           100         1         100         1         100         1           100         1         100         1         10         1           100         1         100         1         10         1           100         1         100         1         10         1           100         1         100         1         10         1           1         1         80         1         1         1           30         8         240         8         30         30         20         800         20	410 410 630 635 635 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point Remote to service point Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.22 7.23 7.24 7.25 7.26 7.27 7.3 7.31 7.32 7.33	3-Person Rooms         Image: Constraint of the second	00         3         270         12           6         18         108         -           1         1,858         0         0         65           400         1         400         4         -           200         1         200         -         -           200         1         200         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         80         1         -           180         0         5         0         -           30         8         240         8         -           35         6         210         -         6	410 410 630 633 635 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point Remote to service point Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.23 7.24 7.25 7.26 7.27 7.31 7.31	Person Booms     Polsens	90         3         270         12           6         18         108         1           1         1,858         0         0         86           400         1         400         4         4           200         1         200         1         200         1           200         1         200         1         100         1           100         1         100         1         100         1           100         1         100         1         100         1           100         1         100         1         100         1           100         1         100         1         100         1           100         1         100         1         100         1           100         1         100         1         100         1           100         1         100         1         0         1           100         1         100         5         0         1           30         8         240         8         30         20           35         6         210         6 <td>410 410 630 635 635 635 635 635 635 635 635 635 635</td> <td>Zone Access to dock Remote to service point Remote to service point Remote to service point Remote to service point Remote to service point</td> <td>Acoustically enclosed furniture pods</td>	410 410 630 635 635 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.22 7.23 7.24 7.25 7.26 7.27 7.3 7.31 7.32 7.33 7.34	3-Person Rooms         Image: Constraint of the second	00         3         270         12           6         18         108         -           1         1,858         0         0         65           400         1         400         4         -           200         1         200         -         -           200         1         200         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         80         1         -           180         0         5         0         -           30         8         240         8         -           35         6         210         -         6	410 410 630 633 635 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point Remote to service point Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.22 7.23 7.24 7.25 7.26 7.27 7.3 7.31 7.32 7.33 7.34	Person Rooms     Hobie Writeboards     Subtotal     O     O     Cafe     Subtotal     O     O     Cafe     Cane     Source Prop      Cane	00         3         270         12           6         18         108         1           1         1858         0         0         96           400         1         400         4         2           200         1         200         1         200         200           200         1         200         1         200         1           100         1         100         1         100         1           100         1         100         1         100         1           100         1         100         1         10         1           100         1         100         1         0         5         0           30         1         80         1	410 410 630 635 635 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.22 7.23 7.24 7.25 7.26 7.27 7.3 7.31 7.32 7.33 7.34	Person Rooms     Hobie Writeboards     Subtotal     O     O     Cafe     Subtotal     O     O     Cafe     Cane     Source Prop      Cane	00         3         270         12           6         18         108         1           1         18         0         0         66           400         1         400         4         2           200         1         200         2         2           100         1         100         1         100           100         1         100         1         100           100         1         100         1         2           100         1         100         1         2           100         1         100         2         1           100         1         100         2         2           100         1         100         2         2           100         1         100         2         2           30         20         600         2         2           30         20         600         2         2           31         125         5         3         2	410 410 630 635 635 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	3-Person Rooms Additional Additio	00         3         270         12           6         18         108         12           400         1         888         0         0         96           400         1         400         4         200         1         200         1           200         1         200         1         200         1         200         1         200         1         200         1         100         1	410 410 630 635 635 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.21 7.22 7.23 7.24 7.25 7.26 7.27 7.3 7.31 7.32 7.33 7.34	3-Person Rooms Analysis and Ana	00         3         270         12           6         18         108         12           1         18         108         12           1         18         108         12           1         18         108         0         86           200         1         200         1         200           200         1         200         1         200           200         1         200         1         200           200         1         200         1         200           200         1         100         1         100           300         1         80         1         1           30         1         80         1         1           33         6         200         5         3           33         6         210         6         31           4233         0         5         117	410 410 630 635 635 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	SPesson Rooms         Image: Constraint of the second	00         3         270         12           6         18         108         -           1         1.858         0         0         66           400         1         400         4         -           200         1         200         -         -           200         1         200         -         -           200         1         200         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           30         8         240         6         -           32.2         100         325         0         0         31           4235         0	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	3-Person Rooms	00         3         270         12           6         18         108         1           1         1858         0         0         86           400         1         400         4         1           200         1         200         1         200         1           200         1         200         1         200         1           200         1         200         1         100         1           100         1         100         1         100         1           100         1         100         1         100         1           00         1         80         1         1         100         1           00         1         80         0         5         0         0           30         8         240         8         8         30         20         600         20           35         6         210         6         6         120         1         120         1         120           1         1255         0         0         31         4         433         5         117	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	SPesson Rooms         Image: Constraint of the second	00         3         270         12           6         18         108         -           1         1.858         0         0         66           400         1         400         4         -           200         1         200         -         -           200         1         200         -         -           200         1         200         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           30         8         240         6         -           32.2         100         325         0         0         31           4235         0	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	3-Person Rooms         Image: Control of Cont	00         3         270         12           6         18         108         -           400         1         488         0         0         86           400         1         400         4         -         -         -         -         -         6         120         -	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	3-Person Rooms	00         3         270         12           6         18         108         12           1         18         108         12           400         1         400         4         20           200         1         200         1         200           200         1         200         1         200           100         1         100         1         100           100         1         100         1         100           100         1         100         1         100           100         1         100         1         100           100         1         100         1         100           100         1         100         1         100           100         1         100         1         100           100         1         100         5         0           30         8         240         8         8         30           32         10         325         0         5         117           4233         0         5         117         120         5         6     <	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	3-Pesson Rooms         Image: Constraint of the second	00         3         270         12           6         18         108         -           1         188         0         0         86           400         1         400         4         -           200         1         200         -         -           200         1         200         -         -           200         1         200         -         -           200         1         200         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           30         20         20         5         0         20           325         100         325         5         5         117           202	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	3-Person Rooms	00         3         270         12           6         18         108         12           1         18         108         12           400         1         400         4         20           200         1         200         1         200           200         1         200         1         200           100         1         100         1         100           100         1         100         1         100           100         1         100         1         100           100         1         100         1         100           100         1         100         1         100           100         1         100         1         100           100         1         100         1         100           100         1         100         5         0           30         8         240         8         8         30           32         10         325         0         5         117           4233         0         5         117         120         5         6     <	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	SPerson Rooms     Subtotal	00         3         270         12           6         18         108         12           1         18         108         12           1         18         108         0         96           200         1         200         1         200           200         1         200         1         200           200         1         200         1         200           200         1         200         1         200           100         1         100         1         100           00         1         80         1         1           00         1         80         5         0           30         2         20         600         20           35         6         210         6         6           30         2         20         600         20           35         6         210         6         6           320         1         125         0         31           4233         0         5         117           17252         180         5         6      <	410 410 410 410 630 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	3-Pesson Rooms         Image: Constraint of the second	00         3         270         12           6         18         108         -           1         188         0         0         86           400         1         400         4         -           200         1         200         -         -           200         1         200         -         -           200         1         200         -         -           200         1         200         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           30         20         20         5         0         20           325         100         325         5         5         117           202	410 410 410 410 630 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	3-Person Rooms	00         3         270         12           6         18         108         12           1         18         108         12           1         18         108         0         96           200         1         200         1         200           200         1         200         1         200           200         1         200         1         200           200         1         200         1         200           100         1         100         1         100           00         1         80         1         1           00         1         80         5         0           30         2         20         600         20           35         6         210         6         6           30         2         20         600         20           35         6         210         6         6           320         1         125         0         31           4233         0         5         117           17252         180         5         6      <	410 410 410 410 630 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	SPesson Rooms         Image: Control of the second sec	00         3         270         12           6         11         108         1           1         188         0         0         86           400         1         400         4         200         1           200         1         200         1         200         1           200         1         200         1         200         1           200         1         200         1         100         1           100         1         100         1         100         1           100         1         100         1         100         1           80         1         80         1         100         1           80         1         80         1         100         1           30         8         240         8         30         14           35         6         210         6         117         117           323         10         325         0         311         117           4233         0         5         117         117         120         14233         1199         14233	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15           7.16           7.17           7.2           7.23           7.24           7.25           7.26           7.27           7.3           7.3           7.3           7.3           7.3           7.3           7.3           9.0           9.1           9.1	Person Rooms     Polse Webser     Subotal     O     O     Cafe     Subotal     O     O     Cafe     Samey Area / POS     400     O     O     Cafe     Samey Area / POS     400     O     O     Cafe     Subotal     O     O     Cafe     Cafe Add     O     O     O     Cafe     Samey Area / POS     A00     O     O     Cafe     Cafe Add     O     O     O     Cafe     Cafe Add     O     O     O     Cafe     Cafe Add     O     O     O     O     O     Cafe     Cafe Add     O     O     O     Cafe Add     O     O     O     Cafe Add     O     O     O     Cafe Add     O     O     O     Cafe Add     O     O     O     O     O     O     Cafe Add     O	00         3         270         12           6         18         108         -           1         18         108         -           400         1         400         4         -           200         1         200         -         -           200         1         200         -         -           200         1         200         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           30         8         240         8         -         -           30         2         600         20         -         -           32         10         325         0         311         -           4,233	410 410 410 630 632 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	SPesson Rooms         Image: Control of the second sec	00         3         270         12           6         13         108         -           1         188         0         0         86           400         1         400         4         -           200         1         200         -         -           200         1         200         -         -           200         1         200         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           30         8         240         -         8           30         2         600         20         -           32         10         325         0         0         117      4233         0         5 <td>410 410 410 630 633 635 635 635 635 635 635 635</td> <td>Zone Access to dock Remote to service point Remote to service point Remote to service point Remote to service point Remote to service point</td> <td>Acoustically enclosed furniture pods</td>	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15           7.16           7.17           7.2           7.23           7.24           7.25           7.26           7.27           7.3           7.3           7.3           7.3           7.3           7.3           7.3           9.0           9.1           9.1	3-Person Rooms         Image: Constraint of the Version of the V	00         3         270         12           6         18         108         -           400         1         488         0         0         96           200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         1         200         5         0         20         30         20         30         20         30         20         30         1117         4233         0         5         117         4233         0         5         117         4233         0         5         117         4233	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	SPesson Rooms         Image: Control of the second sec	00         3         270         12           6         13         108         -           1         188         0         0         86           400         1         400         4         -           200         1         200         -         -           200         1         200         -         -           200         1         200         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           100         1         100         -         -           30         8         240         -         8           30         2         600         20         -           32         10         325         0         0         117      4233         0         5 <td>410 410 410 630 633 635 635 635 635 635 635 635</td> <td>Zone Access to dock Remote to service point Remote to service point Remote to service point Remote to service point Remote to service point</td> <td>Acoustically enclosed furniture pods</td>	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15           7.16           7.17           72           723           724           723           724           723           73      <	Parson Rooms         Parson Rooms           Subotal         0           Subotal         526           Foot Prof Storage Wah         526           Foot Prof Storage Wah         526           Dry Storage Internet With Others)         1,076           Graduate Commone         Caral Seating           Carral Seating         0           Open Lounge Seating         0           Open Lounge Seating         0           Orcurs Study Room         5           Subotal         0         0           NEW PROGRAM SUBTOTAL         0         0           O Leary Colection         0         0           10 Access Studerstors         0         0           O Library Colection         0         0           O Descing Colection <td< td=""><td>00         3         270         12           6         18         108         -           400         1         488         0         0         66           200         1         200         -         200         1         200         -           200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         1         200         5         0         20         30         20         30         20         30         20         30         117         4233         0         5         117         4233         0         5         117         4233         0         5         117</td></td<> <td>410 410 410 630 633 635 635 635 635 635 635 635</td> <td>Zone Access to dock Remote to service point Remote to service point Remote to service point Remote to service point Remote to service point</td> <td>Acoustically enclosed furniture pods</td>	00         3         270         12           6         18         108         -           400         1         488         0         0         66           200         1         200         -         200         1         200         -           200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         -         200         1         200         1         200         5         0         20         30         20         30         20         30         20         30         117         4233         0         5         117         4233         0         5         117         4233         0         5         117	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15 7.16 7.16 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	Person Rooms     Polse Webser     Polse Webser     Polse Webser     Polse Webser     Polse     Polse Webser     Polse	00         3         270         12           6         13         108         -           400         1         488         0         0         66           200         1         200         -         -         200         1           200         1         200         -         -         -         200         1         200         -         -         200         1         200         -         -         200         1         200         -         -         200         1         200         -         -         200         1         200         -         -         100         1         100         -         100         1         100         -         -         100         1         100         -         -         0         1         100         1         100         -         -         0         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1         100         1 </td <td>410 410 410 630 635 635 635 635 635 635 635 635</td> <td>Zone Access to dock Remote to service point Remote to service point Remote to service point Remote to service point Remote to service point</td> <td>Acoustically enclosed furniture pods</td>	410 410 410 630 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15           7.16           7.17           72           723           724           723           724           723           73           73           73           73           73           73           73           73           73           73           73           90           91           92           93           .	3-Person Rooms         Image: Constraint of the second	00         3         270         12           6         11         108         -           1         1.858         0         0         86           400         1         400         4         -         -           200         1         200         -         -         -         -           200         1         200         - <td>410 410 410 630 633 635 635 635 635 635 635 635</td> <td>Zone Access to dock Remote to service point Remote to service point Remote to service point Remote to service point Remote to service point</td> <td>Acoustically enclosed furniture pods</td>	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15           7.16           7.17           72           723           724           723           724           723           73           73           73           73           73           73           73           73           73           73           73           90           91           92           93           .	Person Rooms     Polse Networks     Polse Webberg     Subotal     O     O     Cafe     Subotal     O     O     Cafe     Sarvery Area / POS     400     O     O     Cafe     Sarvery Area / POS     400     O     O     Cafe     Subotal     O     O     O     Cafe     Subotal     O     O     O     Cafe     Subotal     O     O     O     O     Cafe     Cafe Accounting Run     Subotal     O     O     Cafe Accounting Run     Cafe Accountin	00         3         270         12           6         11         108         -           1         1.858         0         0         86           400         1         400         4         -         -           200         1         200         -         -         -         -           200         1         200         - <td>410 410 410 630 635 635 635 635 635 635 635 635</td> <td>Zone Access to dock Remote to service point Remote to service point Remote to service point Remote to service point Remote to service point</td> <td>Acoustically enclosed furniture pods</td>	410 410 410 630 635 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods
7.15           7.16           7.17           72           723           724           723           724           723           73           73           73           73           73           73           73           73           73           73           73           90           91           92           93           .	3-Person Rooms         Image: Constraint of the second	00         3         270         12           6         18         108         -           400         1         488         0         0         86           200         1         200         -	410 410 410 630 633 635 635 635 635 635 635 635	Zone Access to dock Remote to service point	Acoustically enclosed furniture pods



### **Residential Hub**

Acias Services Lacring Cammos Lag Octoberon Digola Collection Operation Oper					
EXISTING         Unit/ Area         Offset           Space Type         N.S.F.         Seats         Unit/ Area         Offs.	N.S.F. LF Staff Seats FICM	Critical Adjacency	Functional Description / Special F.F. & E	A/V / Technology	Finishes (subject to change)
1.0 ACCESS SERVICES	2022 PROGRAM				
101 Constitue 1 in Linear Constant Dank	150 2 310 30 54 420		6-high shehring; 8-high for medial shehring		
L21         Unclassified to 17 Access derived uses         100         1           12.2         Rearen Shivley         10         3           12.3         Holds         10         3           12.4         Testbook Shivley         10         3           12.5         Lonalde Equipment Storage         10         2           12.5         Lonalde Equipment Storage         10         2	30         54         420           30         54         420           20         36         420           20         36         420		6-legh shelving 6-leigh shelving 6-leigh shelving 6-leigh shelving		
1.2.8         Lost & Functionage         10         1           1.2.7         Reference Mode         00         1           1.2.8         Main Entry Society Oreak         64         1	10 425 64 1 455 64 1 310	Touchdown shife kiosk near or part of circ deak.	(1) 4-high lateral file or cabinet Staffed security desk near entrylexit point		
12.9 Ready Reference Collections 10 1 12.10 Gallery   Display   Showcase 100 1	10 18 420 100 620 200 620		(2) 3-high shelving for ready reference materials New and noteworthy spine out moved with face-out display		
12.12 Consultation Room 80 1 12.13 Drop in Services 80 1	80 350 80 310		2.3 personal		
1.2.14         Express Computers         20         2           1.2.15         Express Printers         15         1           1.2.16         Oglab Sprage         20         1           1.2.17         Self-Check Stations         25         0	40         455           15         455           20         455           0         455	Adjacent to express computers	Stand-up stations spine out mixed with face-out display At main entry		
ACCESS SERVICES SUBTOTAL 0 0	933 162 4 0		At main entry		
2.0 LEARNING COMMONS EXISTING	2022 PROGRAM				
SITE 2 LEARNING COMMONS 2.1 Learning Commons Movesble Sealing 30 20	800 20 410		Mix of wired, mobile seating & tables		
2.1         Lauring Control worksan Journa         30         20           2.2         Lauring Control worksan Journa         200         1           2.3         Pop-Up Presentation/Cathering         500         1           2.4         Orup Study Room - Smith         100         6           2.5         Orup Study Room - Medium         150         2	200 20 410 200 6 620 500 17 610	Supported by large media wall	Multi-panel display with moveable lourge seating Semi-Enclosed area for impromptu presentations for +/-25		
2.6 Collaborative Group Sealing 30 8	800         24         410           300         12         410           240         8         410		4-person group rooms; 6-person group rooms; groups of 4-8 seating arrangements with technology media		
2.8 Lounge w/Tablet Arm 35 10 2.9 Print Lab 250 1	350 10 410 250 455	Touchdown for staff or student worker	color copylprint/scar, 2 kickstart copians; scanners; plotter; layout		
2:10         Lawring Commons Storage         100         1           2:11         Chientation Koak/Digital Wayfinding         20         3           LEARNING COMMONS SUBTOTAL         0         0	100 455		1 per floor 1 per floor; 2 on entry floor level		
2.0 LIBRARY COLLECTION EXISTING Collections	2022 PROGRAM				
3.1 No Collections 10 0	0 0 0 0				
46 SPECIAL COLLECTIONS EXISTING SPECIAL COLLECTIONS	2522 PROGRAM				
4.1 No Special Collections     0 0     SPECIAL COLLECTIONS SUBTOTAL     0	0 0 0 0				
	2022 PROGRAM				
Quiet Seating					
5.1         Carnel Bauding         30         80           5.2         Table Stating         25         50           5.3         Oxiet Residing Recm         2.000         1	2,400 80 410 1,250 50 410 2,000 67 410		Include fireplace / hearth		
5.4 Small Study Rooms 100 6 5.5 Quiet Louroe Seating 35 5	2/000         0/         4/10           600         24         4/10           175         5         4/10           6,425         0         0         226		Can be used for quiet or active; 4-person		
Collaborative Seating					
S6         Closed Group Rooms (small)         100         4           S.7         Closed Group Rooms (Medium)         150         1           S.8         Open Flace Group Avais (umit)         100         2	400 20 410 150 8 410 200 8 410		4-person areas		
5.9 Open Moveable Table Seating 30 40 5.10 Mobile White Boards 6 25	1,200 40 630	Adjacent to Café			
Other Seating					
5.11         Computer Stations (dustered)         30         30           5.12         Special Project Room         180         1           Subtotal         0         0         1	900         30         410           180         8         350           1,060         0         038	Long term project rooms	20 stations per floor (not including 1F) Double as group study rooms		
SEATING+COLLABORATION SUBTOTAL 0 0	9,605 0 0 340		•		
6.0 LIBRARY OPERATIONS EXISTING	2022 PROGRAM				
6.2         Access Bervices           6.2.1         Office         120         2           6.2.2         Workstations         56         4	240 1 310				
6.2.2         Workstations         56         4           Subtotal         6         0         0           6.18         Shared Resources         56         4	224 4 310 484 0 5 0				
	80 315 120 315				
6.18.1         Staff Klohenstle         80         1           6.16.2         Staff Evel Room         1/20         1           6.18.3         Staff Evel RoopPrint         40         1           6.18.4         General Storage         1/00         1           6.18.7         Staff Evel Room         1/20         1           6.18.7         Staff Room         1/20         1	120 315 40 315 100 730 120 350				
6.19 Misc. B.O.H. 6.19.1 General Library Storage 150 1	150 455				
6.19.4 Dock 0 0 6.19.5 Shipping & Receiving 100 0	100 730 WM	Sharod with Partner Sharod with Partner			
6.123 2rtyping 4 xetolening 100 0     6.126 2tupping helding 100 1     6.157 Malicom 100 1     6.157 Malicom 100 1     6.159.11 Housekeping Poor Closels & Storage      80 1		Shared with Partner			
Subiotal 0 0	730 80 559 0 0 0 0 0 0 0 0 0 1,534 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0	Shared with Partner Shared with Partner			
,,,					
7.0 PARTNERS + SPECIAL PROGRAMS EXISTING 7.1 Virtual Learning Hub	2022 PROGRAM	Easy access, away from quist zones			
7.1.1         Arrival / Checking         100         1           7.1.2         Sincle Pods         35         40	100 W05 1,400 40 410				
7.1.3         Double Pods         45         4           7.1.4         2-Person Rooms         60         4           7.1.5         3-Person Rooms         90         1	180 8 410 240 8 410 90 4 410		Acoustically enclosed furniture pods Acoustically enclosed furniture pods		
Subtotal 0 0	108 410 1,118 0 0 60 v 1,118 0 0 60				
		L			







### Special Collections (within HSSE Library)

ccess Services earning Commons ibrary Collections

	Special Collections											
	Seating + Collaboration Operations											
	Partners + Special Programs											
	r annois - opediar regrans											
		EXIS	STING			2022 FULL	. PROGRA	M	[			
	Same Turne	N.S.F.	Seats	Unit/	0	N.S.F.	LF	Staff	Seats	FICM	Critical Adiacanau	Functional Description / Special F.F. & E
	Space Type	N.S.F.	Seals	Area	Qty.	N.S.F.	LF	Stall	Seals	Code	Critical Adjacency	Functional Description / Special F.F. & E
			EXISTING			0000 00						
4.0	SPECIAL COLLECTIONS	-	EXISTING			2022 PF	ROGRAM					
	SPECIAL COLLECTIONS										Secure; Gallery Visibility	40% +/-3% RH; 60 +/- 5 F (collection storage areas); 70 +/- 5 F
	SPECIAL COLLECTIONS										Secure, Gallery Visibility	(occupied areas); dry pipe
4.1	Check-In/Supervision Desk	194		200	1	200		2		310		2 person counter for registration and circulation/reference
4.2	Arrival/Registration	150		150	1	150				440		
4.3	Patron Lockers	85		80	1	80		7		455		(20) 3-high lockers for Reading Rm visitors + open shelf
4.4	Offices Future Archivist	1,087		120 120	3	840 360		3		310 310		
4.6	Future Digital Archivist			120	1	120		1		310		
4.7	Workstation (Student Workers)			40	4	160		4		310	Locate inside Processing Workroom	
4.8	Student worker lockers			6	5	30				315		(10) 2-high lockers for 6 persons to store belongings
4.9	Processing / Cataloguing Workroom	486		400	1	400				310		(3) 4'X8' tables with seating/student workers
4.10	Book Cart Storage Scanning and Photography	50 244		10 250	5	50 250				315 315	Does not duplicate 'digitization'	
4.12	Shared Lateral Files	244		8	30	240				420	Does not dupicate digitization	5-high lateral files
4.13	Holding Shelves for Processing			8	4	32				420		7-high shelves
4.14	Material/Supply Shelves for Processing			8	4	32				420		7-high shelves
4.15	Copy Area			40	1	40				315		Copy / Print / Scan Station Existing *4,400cu.it. growth, 10% Standard Sherving, 40% *7-5%
4.16	Main Collection Storage (Archival Boxes) Main Collection Storage (Archival Boxes)	5,200		10 6	80 760	800 4,560	1,200 11,400		<u> </u>	420 420		Existing+4,400cd:11.1growth; 90% HD Sherving; 40% +7-3% KH;
4.18	Main Collection Storage (Maps & 'Other')			300	1	300	,+00		<u> </u>	420		60 ±/ 5 E dou nine
4.19	Secure Vault	100		200	1	200	840			315		Separate secure storage; added HVAC; high value items
4.20	Cold Storage			400	1	400	330			440	Includes acclimation zone	
4.21	File Cabinet Collection	1.404		10	10	100	I		12	420		Same as existing; 40% +/-3% RH; 60 +/- 5 F; dry pipe 12 front facing researcher tables
4.22 4.23	Special Collections Reading Room Group Room	1,404		125 200	12	1,500 200		-	12 8	410 410	Adjacent to Reading Room; sound attenuated	6-8 persons; signtline to supervision desk; doubles as
4.24	Patron Holds Shelving			10	4	40	72		0	410	Adjacent to reading room, addite attenuated	For active/requested materials
4.25	Reading Room Storage			40	1	40				455		Book cradle/weights/magnifiers/light box/etc.
4.26	Special Collections Instruction Room	818		30	35	1,050			35	110	Up to 30 instructional seats	Seats +/- 30; can be shared; feel contiguous w/ reading rm.
4.27	Classroom Storage Closet Local Display	350		80 200	1	80				455 620	Not needed with adjacent Knowledge Gallery	Book cradle/weights/magnifiers/light box/etc.
4.20	To-Be-Processed Holding	608		500	1	0 500				315	Can be remote	Secure and climate controlled Secure; Climate controlled
4.30	Quarantine	000		200	1	200				315	Can be remote	Secure; Climate controlled
	CONSERVATION LAB											
4.32	Workstation			56	1	56		1		310	In lab	
4.33	Future Conservator's Office			120	1	120		1		310	Adjacent to lab	
4.34 4.35	Storage Cabinets Preservation/Conservation Lab	364		10 400	3	30 400				315 250		Elephant dunk extractors, neezer, neeze ury chamber, light
4.35	Fume Hood	304		35	1	35				250		table ultraconic welder
4.37	Deionized Water + Sink			35	1	35				250		
4.38	Photo documentation area			35	1	35				250		
4.39	Dry Mount Press			20	1	20				250	See knowledge Gallery in Partner + Special	
4.40	Vacuum Suciton Table			20	1	20				250	Programe	
4.41	DIGITIZATION Digitization Lab	900		350	1	350				530	In lab	
4.41				550						550	III Iab	
	SPECIAL COLLECTIONS SUBTOTAL	11,140	0			14,055	13,842	19	55			
7.9	Kanada dan Onlinea											
7.9	Knowledge Gallery										Proximity to Special Collections / Archives	
7.9.1	Gallery all in			1,200	1	1,200				620		Flexible display
7.9.2	Large Digital Display Wall			100	1	100				620	For digital content display	
7.9.3	Reception			80	1	80				W05		
7.9.4	Gallery Storage Subtotal	0	0	120	1	120 1.500	0	0	0	625		
	NEW PROGRAM SUBTOTAL	11,534				16,025	13,842	19	55		L	
I	NEW TROOP AN OUT OT AL	11,034				10,023	13,042	10	33	T		
										$\vdash$		
8.0	PROGRAMMED SERVICES		EXISTING			2022 PF	ROGRAM					
	1.0 Access Services						1					
	2.0 Learning Commons											
	3.0 Library Collection											
	4.0 Special Collections	11,140				14,055	13,842	19	55			
	5.0 Seating + Collaboration											
	6.0 Library Operations 7.0 Partners + Special Programs					-						
	PROGRAMMED SERVICES SUBTOTAL					14.055	13.842	19	55			
L	PROGRAMMED SERVICES SUBTOTAL	11,140	0			14,055	13,842	19	55		L	
9.0	CROSSING	Fester	GSE			N.S.F.	Factor		0.05			
3.0	Program Multiplier	1.57	0.3.F.			113111	Factor		G.S.F.			
9.1	Frogram Multiplier	1.57	0			14,055	0.050		703	$\vdash$		1 1
9.1	Building Services/Toilets		0			14,055	0.120		1,687			1
9.2	Circulation		0			16,444	0.200		3,289			
9.3	Construction		0			19,733	0.100	L	1,973			<u> </u>
	ADDITIONAL GROSSING SUBTOTAL		6,350						7,652			
•		_										
10.0	TOTAL BUILDING AREA											
	8.0 Programmed Services		11,140						14,055			
	9.0 Additional Grossing		6,350						7,652			1
	BUILDING TOTAL		17,490	L					21,707			<u> </u>



### MEETING MINUTES Workshop 1: November 11, 2021

#### **Meeting Details**

Meeting Date:	11.10.2021	Project Name:	Purdue University Libraries Master Plan
Meeting Time:	All Day	Project Number:	021661.000
Meeting Location:	HSSE, Third Floor Conference Room 353	Attendees:	10 Students, Jessica Figenholtz, Drew Furry, Beth McNeil, Derek Jones, Allison Leavitt, Phil Kolb, Dean Lingley, Rebecca Richardson, Mark Puente, Candace Scott, Katey Watson, Robin Meher

#### Discussion

001	Student Visioning Session	
001	<ol> <li>More space to gather and work in groups, open space that requires no reservations. Its to closed and quiet for discussions at the moment.</li> <li>Like multiple zones for different types of work. Want spaces to share ideas. Do not like the current lighting.</li> <li>Too much info flooding the campus, need a better more interactive way to search for different services.</li> <li>Like high ceilings and sense of volume. Don't like interior finishes and uncomfortable hard chairs.</li> <li>Create:         <ul> <li>Curated books, make spines visual; Conference style rooms with technology; Sharing spaces; more natural light; Conversation pits; Better ergonomics; More outlets and power sources.</li> </ul> </li> </ol>	Perkins + Will
002	Workshop Prep	Perkins + Will
	<ol> <li>Confirm enrollment target numbers in alignment with classroom MP; Review floorplans of what is library space (WALC); Follow up with Drew for space needed for all buildings; update spreadsheet; Beth to provide list of stakeholders that did not fit in workshop #1.</li> </ol>	
003	Archives & Special Collections	Perkins + Will
	<ol> <li>Strategic Plan: Increase use of collections and visibility of archives; Division going through rapid growth area collections, staff, collaborations with departments; Need capacity to bring in more public exhibits; Have mixed audiences; Need to balance food/beverage needs with archive materials.</li> </ol>	
	<ol> <li>Growth: Can't accept collections because of the lack of space; Need climatized transitional spaces; Need personal to do exhibits and allow for growth; Process, collections and reading rooms should be in proximity.</li> </ol>	
	<ol> <li>Staff Growth: Working on adding staff member; Need processing space; Still want staff offices for private meetings and instruction; Flex space is good.</li> </ol>	
	<ol> <li>Meeting Space: Weekly staff meetings are remote; SWAIN is not good for small meetings, needs to be more intimate.</li> </ol>	
	5. Make people place materials in lockers if they have any	
	6. Special Equipment: Have loans to museums but should increase use and gain exposure; Bring materials in skid palette, need access to freight elevators and loading docks; Donors of collections want more visibility and expect distinct identity; Should be 'gravatas' around high-profile	



		- ONIVERS
004	<ol> <li>Digital Scholarship User Group         <ol> <li>Purdue is invested in STEM; Most resources are not physically available.</li> <li>Need a good network; No clear website pointing people in right direction; Researchers don't like going into different offices, they should be more integrated/</li> <li>No digital scholarship program on campus; initiatives come from faculty.</li> <li>Digital scholarship and digital humanities should be together and belong to HSSE library space.</li> </ol> </li> </ol>	Perkins + Will
005	<ol> <li>External Faculty Partners         <ol> <li>David, history professor, expressed how Purdue has no access to books; Students prefer e-books.</li> <li>In STEM, books are outdated quickly; Care more about digital copies; Don't know everything the library offers.</li> <li>Faculty doesn't go to the library because all spaces are always taken up by students; Faculty wants private space, for writing, away from students and noise.</li> </ol> </li> </ol>	Perkins + Will
006	CIE and Innovative Learning & Envision Center 1. Think about hybrid situations with classes and adapt spaced to that, studios; Think about VR spaces; Bleeding off library spaces idea.	Perkins + Will
007	<ol> <li>Core Visioning Session         <ol> <li>Keep: Individual study spaces; Costumer service; Books; Digital reference help desk; Makerspace; Multi-purpose spaces like computer labs, study rooms, etc.</li> <li>Toss: Big service desk; single use spaces; Idea of quietness; security systems; all print collections on campus; Uncomfortable seating; Not friendly 'staff only' signs; Physical books that are online.</li> <li>Create: Consistent signs and branding; Data/GIS walk in services; Recording studios; Sanctuary spaces; Collaborative spaces; Wayfinding interfaces; better maker space; Dynamic welcome space; Interactive noisy space; Gallery space; Permanent exhibit space.</li> </ol> </li> </ol>	Perkins + Will
008	<ul> <li>Partners in Library Space</li> <li>1. There are good resources on campus, people don't know where they are</li> <li>2. Need spaces that encourage dialog</li> <li>3. Create opportunities by taking away the stigma and barriers of library, give people tools to be successful</li> </ul>	Perkins + Will
009	<ul> <li>Communications and Advance</li> <li>1. Want to make libraries more visible, raise awareness; Get survey from Phil</li> <li>2. 3D printing services are tucked into a windowless corridor; Technology needs to be placed somewhere more accessible; Library is being used as a transiting space from class to class.</li> <li>Action Items: Get survey from Phil</li> </ul>	Perkins + Will
010	<ol> <li>Library Faculty User Group         <ol> <li>Need space to meet for private conversations; need small group meeting rooms.</li> <li>Need to get scholars more connected; Spaces need to be more conductive to multicultural students; Leverage spaces for more collaboration for under-served students; More physical and virtual spaces for partnership and collaboration.</li> <li>Need to send questions ahead of time.</li> </ol> </li> </ol>	Perkins + Will
011	<ul> <li>Administration User Group <ol> <li>Look at JLL space study from Michael as we plan space; Meetings space for 4-6 conf rooms; Soo how often we have large meetings in Outlook calendar for covid times; Need video possibility in the rooms.</li> <li>Make admin space more accessible to staff; Also want it open and welcoming; Could benefit from having a hub; Some office space feels removed/isolated (maybe due to pandemic).</li> </ol> </li> <li>Action Items: Beth to send spring report and projected numbers</li> </ul>	Perkins + Will

#### PURDUE UNIVERSITY

012	Library Services, Access Services & Print Repositories	Perkins + Will
	<ol> <li>Front Desk: HSSE doesn't have enough room (1-2 people); WALC 1 person;</li> </ol>	
	HSSE desk too wide.	
	<ol> <li>Would like to have ITAP nearby; Have it at WALC now, signage doesn't</li> </ol>	
	Work.	
	3. Theresa: Like ITAP ideal for Parrish Library desk; Currently have 4 different	
	wats to approach.	
	<ol> <li>Equipment in HSSE needs work, WALC is set up already; Security is not a big issues Taskas la gravity WALC will be reactivity and be tasked back</li> </ol>	
	big issue; Technology in WALC will be receiving maker tools back.	
	<ol> <li>ILL loan area, need to look at processing from shipping/receiving.</li> <li>Accessibility is a big issue in all an accessing from the shipping/receiving.</li> </ol>	
	6. Accessibility is a big issue in all spaces.	
013	UCO, PUP and OUR User Group	Perkins + Will
	1. PUP: In the process of moving; There is only 1 enclosed office, need more	
	for senior leadership team; Had some restructuring; Fear there might be	
	disruptive without own closed space; Want mini conference room; New	
	space might limit future growth; As publishers they do a lot of printing.	
	2. UCO: Copyright does all the legal work for PUP; Adjacency is not	
	beneficial; Copyright attorney for all Purdue campuses; Work with	
	archives; Work closely with Dean, senior advisor to Beth. Lots of legal	
	issues in libraries; Workshops range from 5-20 students; Do not touch	
	printer in desk; Need quiet space for office.	
	3. OUR: Want it to be in front and center; Main entry is off study space: 4	
	cubicles for arad students, and 3 workstations for undergrads: There is not	
	cubicles for grad students, and 3 workstations for undergrads; There is not enough storage in suite.	
014	enough storage in suite.	Perkins + Will
014	enough storage in suite. Acquisitions and Discovery	Perkins + Will
014	enough storage in suite. Acquisitions and Discovery 1. Discovery: When you look at library catalog that is discovery; Unit makes	Perkins + Will
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014	<ul> <li>enough storage in suite.</li> <li>Acquisitions and Discovery <ol> <li>Discovery: When you look at library catalog that is discovery; Unit makes sure searching things are working correctly; Metadata is data standing behind materials in library.</li> <li>Acquisitions: Everything in library goes through acquisitions; Want lunchroom near them; Hoteling station + undesignated workstation;</li> </ol> </li> </ul>	Perkins + Will
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-15	<ul> <li>enough storage in suite.</li> <li>Acquisitions and Discovery <ol> <li>Discovery: When you look at library catalog that is discovery; Unit makes sure searching things are working correctly; Metadata is data standing behind materials in library.</li> <li>Acquisitions: Everything in library goes through acquisitions; Want lunchroom near them; Hoteling station + undesignated workstation; Elevator is only in stack area, not in work area; No ADA access on 3rd floor; Need for quiet spaces, acoustic separation.</li> <li>Made cubicles the same size, moving virtually.</li> </ol> </li> <li>Fabricators and Maker Spaces User Group <ol> <li>Ann, Robin, Victoria Thomas, Sarah -run maker space; Don't host events because it's too small; WALC maker space is not accessible to students.</li> <li>Annette and Sarah have podcast part of maker programming; 2 offices, want to dedicate one to podcast booth; possibility of making one at HSSE.</li> <li>Maker Space: CNC machine; Cricket maker and Cricket press; 3D scanner.</li> </ol> </li> </ul>	

**Please note:** The foregoing constitutes our understanding of matters discussed and conclusions reached. Other participants are requested to review these items and advise the originator in writing of any errors or omissions.



#### PRESENTATION SLIDES

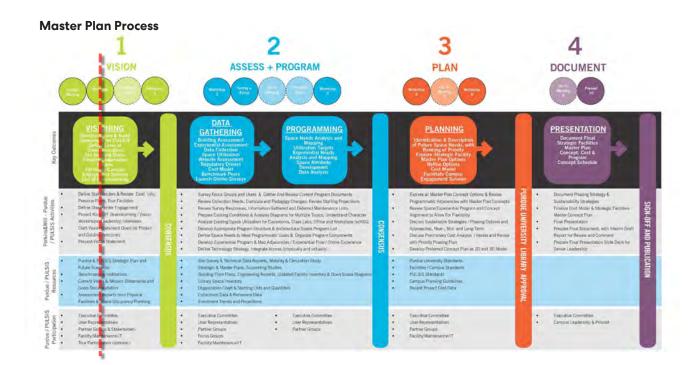


#### Purdue University Library Master Plan Working Group Meeting

November 11, 2021

Perkins&Will

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AARP STAYING SHARP | AD OBE | AARP STAYING SHARP | AD OBE | AEROFARMS | ALLBIRDS | ASANA |

ANATHLETIG BREWING CO.

BEATS BY DRE | BEN & JERRY'S |

BEYOND MEAT | BUMBLE | CARE.COM | CARIUMA |

#### COSMOPOLITAN MAGAZINE | G-SDAM | DESCOMPLICA | DISABILITY:IN |

ETSY | @ feeding America | \*\*\*\*\*\* | FORD MOTOR CO. |

#### GENERAL MOTORS

GCT'S LIVING FOODS | HACKERONE |

HULU | IBM | IKEA | IMPOSSIBLE FOODS | INDEED | KING ARTHUR BAKING CO. | LETSGETGEREGKED | MAILCHIMP | MAM BABY | MASTERCLASS | MMKMGDONALD'S |

#### MEMORIAL SLOAN KETTERING CANCER CENTER

#### NATIONAL BASKETBALL ASSOCIATION

DIGE | NO KID HUNGRY | OLD NAVY | **PATAGONIA PROVISIONS** | PAYPAL | PERKINSAWILL | PHILIPS | **PLAYSTATION** |

## PURDUE UNIVERSITY

ROTTEN TOMATOES | SESAME WORKSHOP | SHOPIFY | **SLICE** | SONOS | SOUARE | STEADY | **SWEETGREEN** | *Poteamtrees* | thredup | MTRACKSMITH | **TUPPERWARE** |

ULTA BEAUTY | US FOODS | ( VANS |

VERSED | VITAL FARMS | WARBY PARKER | WORLD CENTRIC | XBOX | , VETI | YUMI | ZOOM |

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# ... an undeniable impact on business and culture ...

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### Success will mean . . .

- Compelling, future forward vision: "more than books"
- A vision/project that is ready for funding
- Collections are protected and safe
- The library is visible and welcoming: stronger identity
- Friendly staff are foregrounded
- Support innovative instruction/learning/pedagogy
- Flexible/adaptable
- Embrace the metaverse-merging physical and virtual space
- Consolidated and accommodate growth for A/SC

collections visibility innovation technology

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### Challenges will be ....

- Ability to fundraise to a budget
- Will the aspirations be sustainable (physically and institutionally)
- How will staffing align with increased demand (student FTE's have already hit 2028 projections)
- Don't overdo the "digital" maintain balance
- Demonstrate (make visible) purpose and relevance
- Do not lose sight of student needs

collections visibility technology student focus

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### **Core Group**

Compelling Vision: "more than books" Collections are protected Library is visible & welcoming Support innovation Embrace the "metaverse" Don't overdo the tech

Don't lose sight of student needs

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Collections are protected Maintain: 1-in / 1-out Don't lose sight of student needs Student success

# Core Group Compelling Vision: "more than books" Exec. Committee Doubling down on the "experiential"

Library is visible & welcoming Accessible; extension of classroom Support Innovative Learning Co-educators of transformative ed Embrace the "metaverse" Center of mass: online experience Don't overdo the tech | Belonging; access; connected; inclusive

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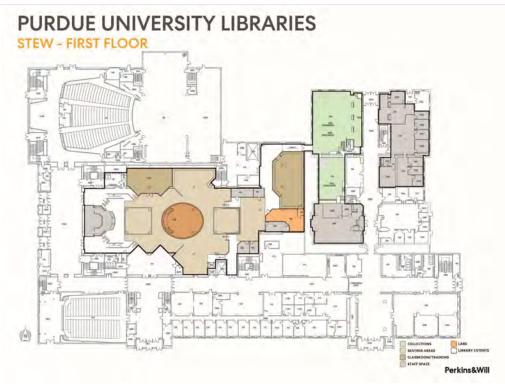
### In a word

### Core Group | Exec. Committee

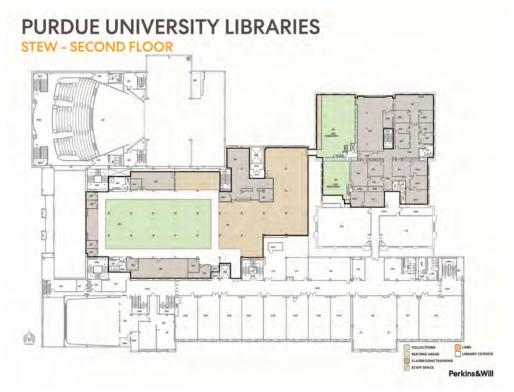
**Bold** Experiential Flexible Ownership Visionary Pride **Practical** Supportive Enabling Success

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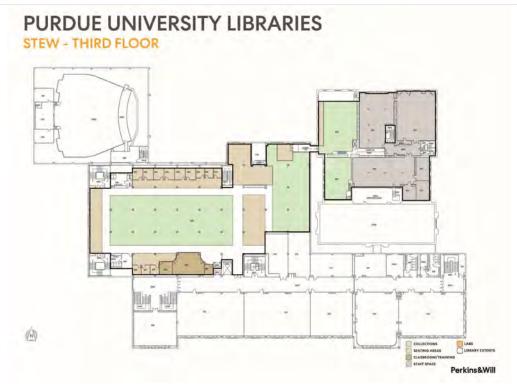


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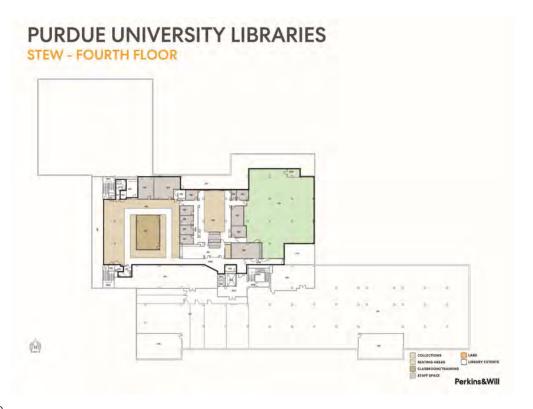


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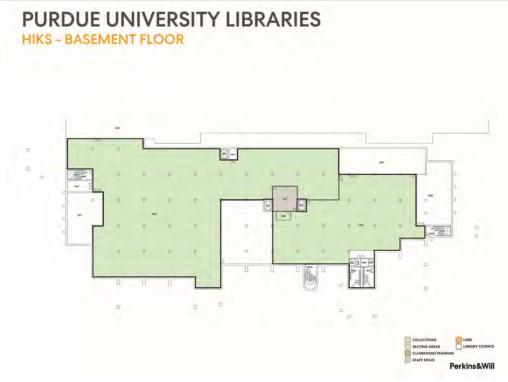


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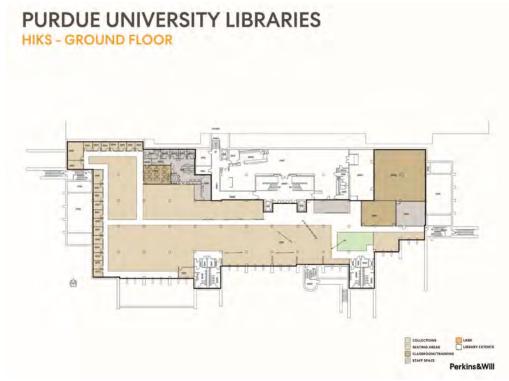


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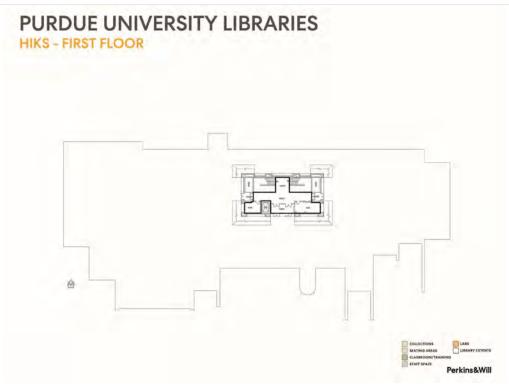


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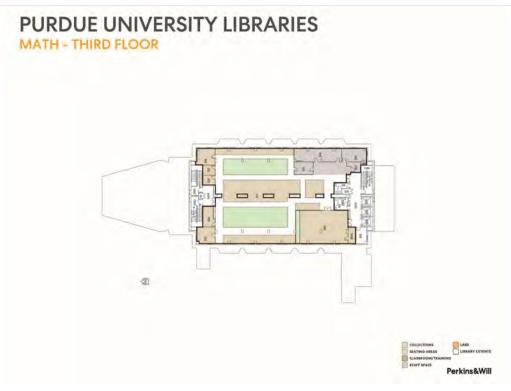
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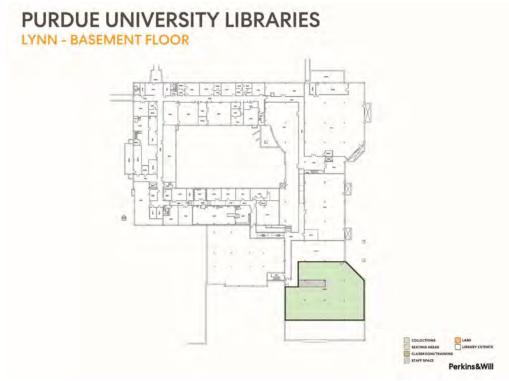
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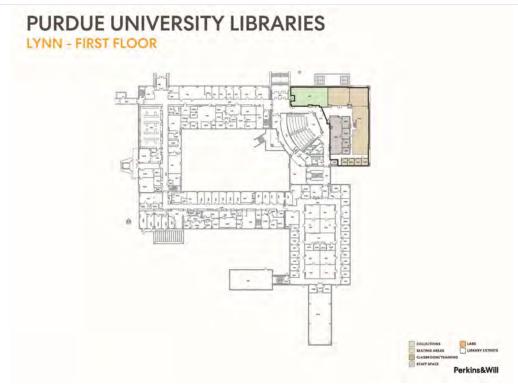


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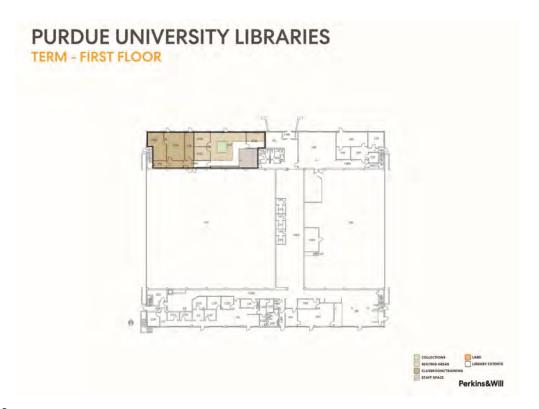


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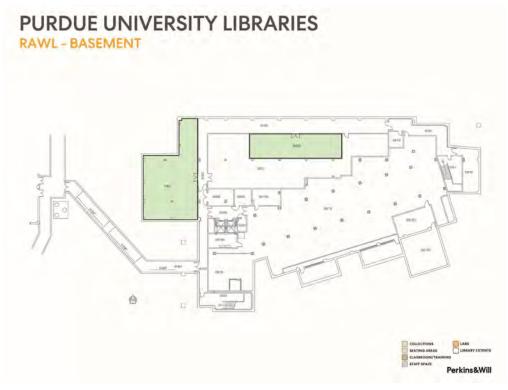


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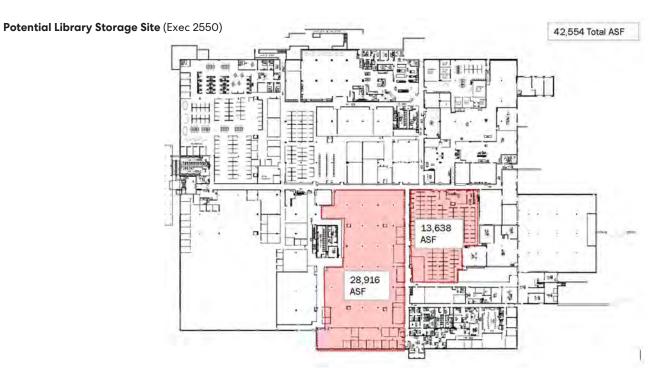


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#### Potential Library Storage Site (Preliminary Test Fit)

#### **Existing Print Repositories:**

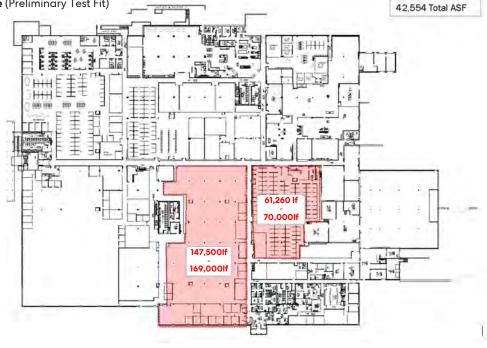
- 4-6 high open shelving (72") •
- 7-high HD shelving (88") •
- 95+% filled 981,529 volumes + add'l • uncataloged items

#### Low: 177,447 LF

- 7-high shelving (88")
- 85% filled •
- 2.13M volumes •

#### High: 215,100 LF

- 8-high shelving (100") •
- 90% filled •
- 2.58M volumes •



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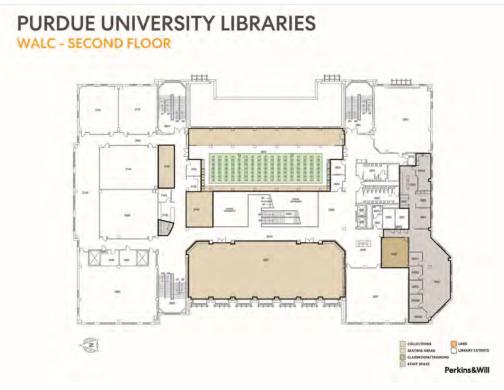
#### **Area Discrepancies**

		Pundue	PW Measure	Variance
Vet Med	LYNN	17,913	18,275	2.0%
Rawls Hall	RAWL	3,617	3,705	2.4%
Hicks Undergrad	HIKS	71,607	69,975	-2.3%
Bus/Mgt	KRAN	14,127	14,120	0.0%
Mathematics	MATH	7,774	7,920	1.9%
HSSE	STEW	127,796	125,505	-1.8%
Aviation	TERM	2,196	2,295	4.5%
Wilmeth	WALC	33,954	22,805	-32.8%

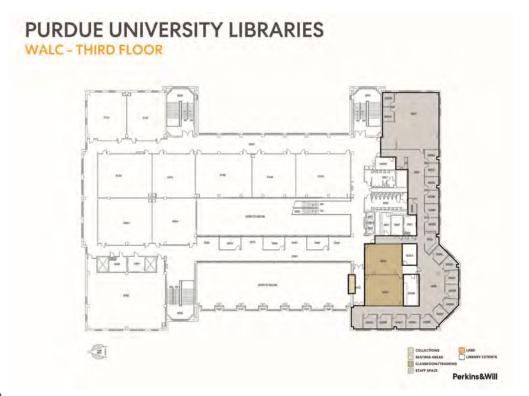
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### **Area Allocations**

UBKARY	BUILDING	LT VEL	COLLECTIONS	SEATING	STAFF	CLASSIN' ONI	SPIC PADG	SUCTOR OF	CIRC/INFN/	IATOT
Humanities, Social Sciences, and Education (HSSE)	STEW	1	7,585	0,560	7,430	2,765	1,850	27,990	5,565	\$3,555
		2	11,545	8,250	11,920			31,515	6,815	57,530
		3	12,135	2,300	7,130	920		22,465	11,245	53,730
Archives/Sbec. 0	all.	4	0	3,090	0	0		3,090	0	3,090
		Total	30,985	22,200	26,496	3,685	1,850	85,080	22,025	107,905
		*	36%	26%	31%	4%	2%	100%	21%	100%
Undergraduate Library	HIKS							0	1,130	1,130
		B	650	17,540	2,965	4,115		25,270	7,750	35,020
		4			2.00				1.515	1,515
		Total	650	17,540	2,965	4,115	0	25,270 100%	10,395	35,665 100%
		~	-30	64%	125	78.42	14	100%	1974	200%
Library of Engineering Sciences (LOES)	WALC	2	3,950	8,035	3,220	470		15,675	1,220	14,895
		3		80	6,400	1,350	-	7,880	80	7,910
		Total	1,950	8,115	9,620	1,820	0	21,505	1,300	22,805
		5	9%	38%	45%	8%	0%	100%	5%	100%
Parish Library	KRAN	ž	755	7,720	1,020	1,620	255	11,370	2,750	14,120
		15	7%	68%	9%	34%	2% #	100%	19%	100%
Mathematical Sciences Library	MATH	18	1,415	3,410	1,045			5,870	2,050	7,920
		N	24%	58%	13%	0%	0%	100%	26%	100%
Veterinary Medicine Library	LYNN	i i						0	1000	ö
and the state of t		1	1,580	3,590	1,705			7,175	1,610	8,785
		Total	1,580	3,890	1,705	0	0	7,175	1,610	8,785
		8	22%	54%	24%	0%	0%	100%	18%	100%
Aviation and Transportation Technology Library	TERM	3	95	735	215	895		1,940	355	2,295
		5	5%	38%	11%	46%	0%	100%	15%	300%
PURDUE LIBRARIES					10.000				-	
TOTAL (w/o Repository of A/SC) PERCENTAGE			37,310 23.6%	63,610	43,050 27.2%	12,135	2,105	158,210	41,785 20.7%	199,495 100.0%
FERENIAGE			13.04	40.476	Eliza	10.14	144	100.11%	10.7%	100.0%
Additional Repository	HIKS	в	33,700		610			34,310		34,310
and the second se	LYNN	в	9,065		425			9,490		9,490
	RAWL	B	3,705		1.000	_		3,705 47,505	-	3,705
		Total	46,470		1,035			47,505		47,505

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### **Area Allocations**

LIBRARY	BUILDING	LEVEL	COLLECTIONS	SEATING	STAFF	CLASSROOM	SPEC. PROG.	SUBTOTAL
TOTAL (w/o Repository or A/SC) PERCENTAGE			37,310 23.6%	63,610 40.2%	43,050 27.2%	12,135 7.7%		158,210 100.0%
General Benchmark								

General Benchmark					
PERCENTAGE - BENCHMARK	35%	45%	15%	5%	100%
PERCENTAGE VARIANCE	-1176	-5%	12%	3%	

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### **Enrollment Projections**

Confirm Assumptions:

• FTE vs Total Enrollment?

Growth Rate?10-yr horizon?

			Phor					
		UG: FTE	UG FTE	GRAD FTE	TOTAL FTE	GROWTH RATE	3-yr Avg.	4-yr Avg.
1	Fall 2016	29,434.4	1,439.7	7,269,5	38,143.6			
I	Fall 2016	30,330.7	1,412.5	7,319.3	39,062.5	2.41%	2.24%	2.83%
	Fall 2018	31,957.4	1,433.8	7,467.0	40,858.1	4.60%		
I	5 Fall 2019	32,854,2	1,455.6	7,568,7	41,878.5	2,50%		
I	> Fail 2020	33,959,1	1,476.0	7,197.7	42,632,8	1,80%		
	Fall 2020	33,959,1	1,4/0,0	7,197,7	42,032,0	1,8070		

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### **Enrollment Projections**

### Confirm Assumptions:

- FTE vs Total Enrollment?
- Growth Rate?
- 10-yr horizon?
- Are assumptions consistent with classroom study?

100	Fall 2016	UG: FTE 29,434,4	PROF UG FTE 1,439.7	GRAD FTE 7.269.5	TOTAL FTE 35,143,6	GROWTH RATE	3-yr Avg.	4-yr Ave
170	Fall 2017	30,330.7	1,412.5	7,319.3	39,062.5	2.41%	2.24%	2.639
S O	Fall 2018	31,957,4	1,433.8	7,467.0	40,858.1	4,60%		
VEARS	Fall 2019	32,854.2	1,455.6	7,568.7	41,378.5	2,50%		
8	Fail 2020	33,959,1	1,476.0	7,197,7	42,632.8	1.80%		
				1.0	2.24%	2,00%	1.50%	1.009
	Fall 2020			_	42,633	42,633	42,633	42,63
1	Fall 2021				43,586	43,485	43,272	43,05
2	Fall 2022				44,561	44.355	43,921	43,49
3	Fall 2023				45,557	45,242	44,580	43,92
4	Fall 2024				46,575	46,147	45,249	44,36
5	Fall 2025			1.00	47,617	47,070	45,928	44,80
6	Fall 2026				48,681	48,011	46,617	45,25
7	Fall 2027				49,770	45,972	47,316	45,70
8	Fall 2028				50,883	49,951	48,026	46,16
9	Fall 2029				52,020	50,950	48,746	46,67
10	Fall 2030				53,184	51,969	49,477	47,09
11	Fall 2031				54,373	53,009	50,219	47,56
12	Fall 2032				55,588	54.069	50,973	45,04
13	Fall 2033				56,831	55,150	51,737	48,52
14	Fall 2034				58,102	56,253	52,513	49,00
15	Fall 2035			1.00	59,401	57,378	53,301	49,49
16	Fall 2036				60,729	58,526	54,100	49,99
17	Fall 2037				62,087	59,696	54,912	50,49
18	Fall 2038				63,475	60,890	55,736	50,99
19	Fall 2039				54,894	62,108	56,572	51,50
20	Fall 2040			2	66,345	63,350	57,420	52,02
21	Fall 2041				67,829	64,617	58,282	52,54
22	Fall 2042				69,345	65,909	59,156	53,06
23	Fall 2043				70,896	67,228	60,043	53,59
24	Fall 2044				72,481	65,572	60,944	54,13
25	Fall 2045				74,102	69,944	61,858	54,67

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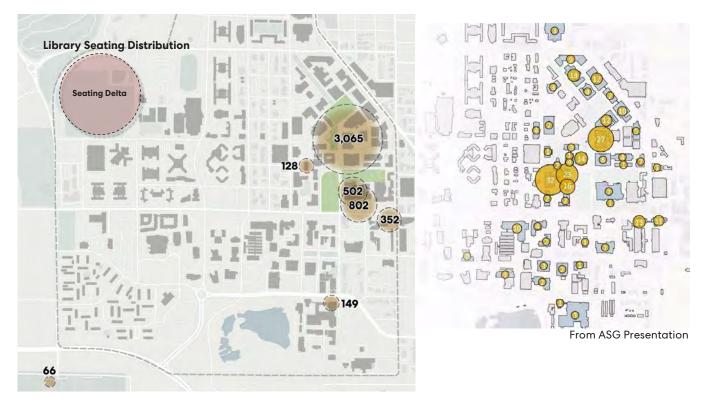


**Overview** 

291 total classrooms = 329,330 NASF across 47 buildings

- NASF range: 340 to 6,944
  - Average = 1,000 1,200 sf
  - Most frequent = 400 600 sf
- 5,699 student stations
  - Room capacity range = 16 480 stations
  - Average = 65 stations
  - Most frequent = 40 stations
- NASF/station: 10 30
  - Average NASF/seat = 19
  - Most frequent NASF/seat = 15
  - 192 classrooms have less than 25 sf/seat
- 88 designated as "active learning"
  - 20 180 stations @ 15 30 NASF/station

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# **Cost & Implementation**

### Initial Spaces to measure:

- HSSE Level 1
- HSSE Level 2
- HSSE Level 3
- HIKS Level G
- WALC Level 2

### Cost Structure for 3 months:

- \$29/month per sensor\$300/year per sensor
- Assuming 5-10 sensors to cover a floor: - Low: \$2,175
  - High: \$ 4,400

### Implementation Timeline:

- <u>Clear with Univ. IT</u>: 2-weeks
- Order lead time: 4-weeks
- Install by: winter break
- <u>Calibration</u>: 2-weeks
- Begin data collection: mid to late-Jan

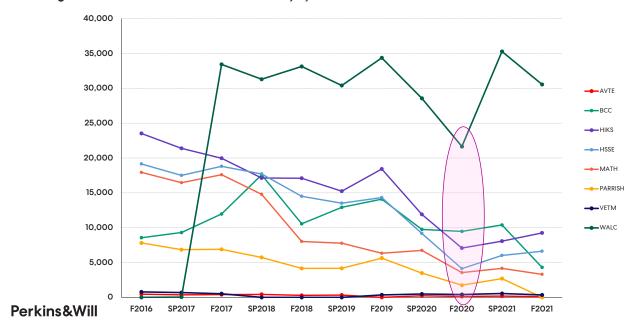


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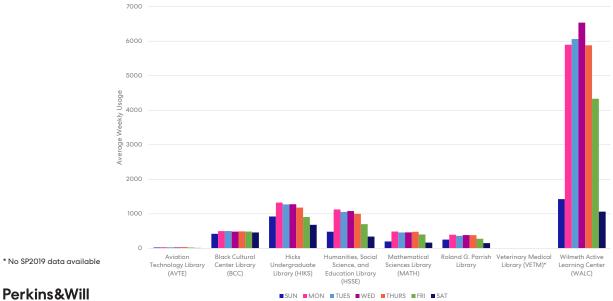
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### WIFI Usage Data - Student Headcount for each Library by Semester

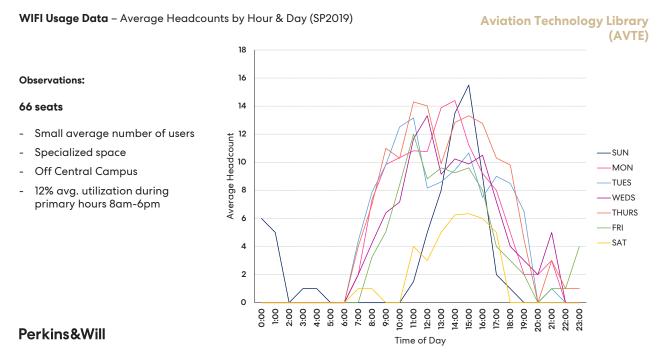
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### WIFI Usage Data - Average Weekly Student Headcount for each Library (SP2019\*)

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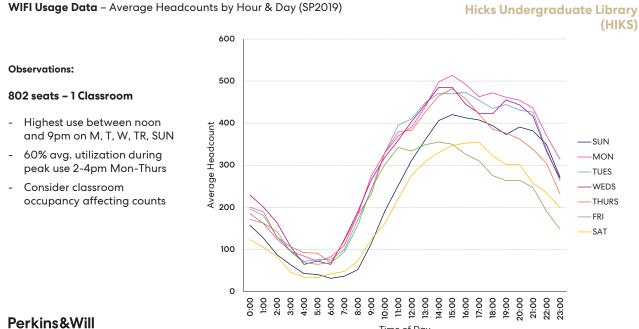


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### WIFI Usage Data - Average Headcounts by Hour & Day (SP2019) **Black Cultural Center Library** (BCC) 250 **Observations:** 200 2 Classrooms / capacity? - All days follow roughly the Average Headcount same trend: consistent 150 -SUN utilization from 11am-6pm and -MON highest numbers weekday -TUES Mon-Thurs evenings (8-9pm) -WEDS 100 - Consider classroom — THURS occupancy affecting counts — FRI SAT 50 0 4:00 5:00 6:00 8:00 8:00 9:00 10:00 11:00 11:00 11:00 11:00 12:00 12:00 22:00 23:00 23:00 2:00 3:00 0:00 Perkins&Will Time of Day

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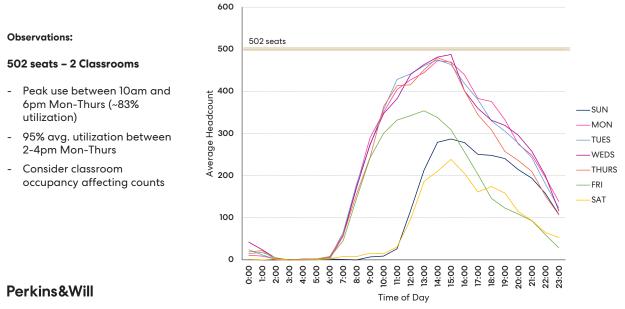
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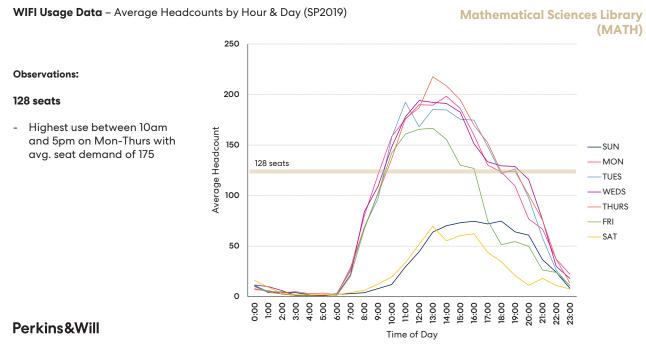


### WIFI Usage Data - Average Headcounts by Hour & Day (SP2019)

Humanities, Social Science, and Education Library (HSSE)



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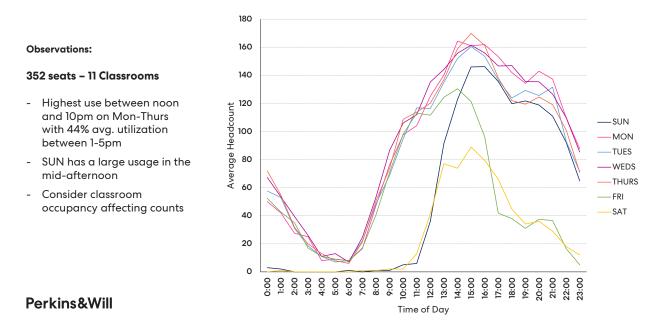


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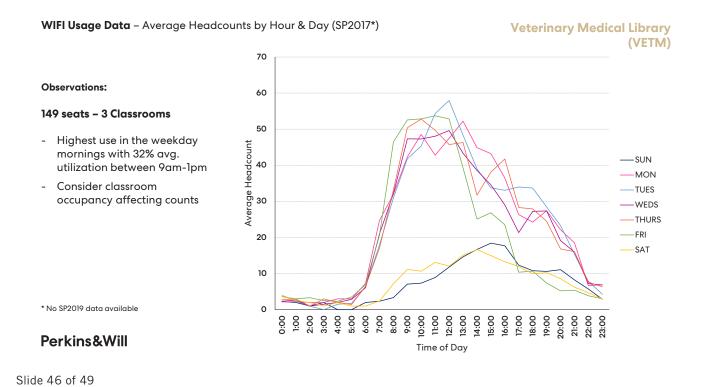


### WIFI Usage Data - Average Headcounts by Hour & Day (SP2019)

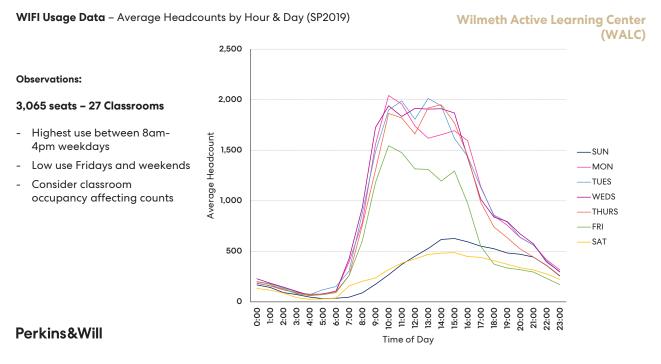
### **Roland G. Parrish Library**



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Understanding the WIFI Usage Data

Our understanding is that the data represents single headcounts even if student is logged in on multiple devices.

### The challenge:

Understanding which WIFI users are in classrooms vs. those who are in the library spaces.

Finding out when these classrooms are used (classroom utilization study might have answers).

Separating out students in classrooms will help compare the number of library users with the seating capacity throughout the day.

Defining seat types in the library to understand capacity and confirm if they're the right type of seat to accommodate tasks.

### Perkins&Will

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Understanding the WIFI Usage Data

## Other data questions:

Do you have circulation data (ie. gate counts / swipe ins)?

Does mean\_users\_dow\_hr represent dwelling time of a certain student?

student_leve	el 💌 college	💌 college_desc 💌 major	💌 major_desc 💌 faculty_staff 💌 or	g_unit 💌 department 💌 dow	💌 day_of_week 💌 h	our 💌 mean	users_dow_hr
UG	PI	Polytechnic Inst CSEC	Cybersecurity		0 Sunday	13	1
UG	AB	School of Agr an BIEN	Biological Engineering		0 Sunday	13	1
UG	М	School of Manag FINC	Finance		0 Sunday	13	1
UG	м	School of Manag PFNC	Pre-Finance		0 Sunday	13	1
UG	HH	College of Healt SELL	Selling & Sales Management		0 Sunday	13	1
UG	AE	School of Aero a AAE	Aero & Astro Engineering		0 Sunday	13	1.625
UG	М	School of Manag SOMT	Strategy & Organiz Mgmt		0 Sunday	13	1
UG	S	College of Scien BIBI	Biochemistry (Biology)		0 Sunday	13	1
UG	CN	Construction En( CNEB	Construction Engineering		0 Sunday	13	1
UG	PC	College of Pharr PHAR	Pharmaceutical Sciences		0 Sunday	13	1.8
UG	S	College of Scien GEOP	Geology & Geophysics		0 Sunday	13	1
GR	GR	Graduate School ABE	Agricultural & Biological Engr		0 Sunday	13	1
UG	PI	Polytechnic Inst CNIT	Computer & Information Tech		0 Sunday	13	1
UG	S	College of Scien CHMA	Chemistry (ACS)		0 Sunday	13	1
GR	GR	Graduate School BMEP	Biomedical Engr Program		0 Sunday	13	1
UG	PI	Polytechnic Inst UXDS	UX Design		0 Sunday	13	1

## Perkins&Will

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# Workshop 2: December 06, 2021

## **Meeting Details**

Meeting Date:	12.6.2021	Project Name:	Purdue University Libraries Master Plan			
Meeting Time:	ime: All Day <b>Project Number:</b> 021661.000					
Meeting Location:	ation: HSSE, Third Floor Conference Room 353 Attendees: Renee Thomas, Bill Co Allison, Pam Sari, Doro Richards, Mark Fuente Annette, Amanda Gill Ayn Reineke, JJ Sadle Stephen Lenz, Laura C Kolbe, Mathew Reihle					
Discussion ITEM NO.	DESCRIPTION			RESPONSIBILITY		
001	Call With Karen Hum 1. Data counts as per headcount, in 2. Students study in classroom whe Action Items: Karen to send study they d classrooms in WALC; end classroom data	n library is closed. <b>lid at WALC; Get h</b>		Perkins + Will		
002	<ul> <li>Call With ASG <ol> <li>Julie and Keith: Enrolment numbers; A properly support these different shrinking scenario.</li> <li>Spaces: Podcast rooms, One but</li> </ol> </li> <li>Action Items: Pick a growth scenario and Shannon/ASG to set up touch point meelearned</li> </ul>	Articulate what we enrollments; Pick a ton studio, VR space <b>I shrinking scenari</b>	think we need to growth scenario and e. <b>o; Set up meeting with</b>	Perkins + Will		
003	LGBTQ & Cultural Centers			Perkins + Will		
	<ol> <li>Lowell: 1 in 5 students associate one center, go to multiple center visits; Need more shared space</li> <li>Pam/ARC: Be aware of own iden nationally; Talked about expans</li> <li>Bill: Empower students and educ tapestry; NP1 used for dance stu used for gallery space, lecture h</li> <li>Renee: Centers have taken advoc library?</li> <li>Lowell: Expansion of LGBTQ cen houses; Rely heavily in external</li> </ol>	rs. On track to hav and staff. htity; support wha ding library collect cate community or idio, lecture hall, a all, and ad hoc clo antage of archives ter; Other cultural	e more than 15,400 t is happening ion. n African American nd movie theater; NP2 issroom. ; Sanctuary space in the	3		
004	Council on Equity & Belonging <ol> <li>Thinking of accessibility and relation outwards; Develop collaboratio</li> <li>Nontraditional students need sustudy room in HSSE, SPAM plan, libraries.</li> </ol>	ns and expending upport; Parenting s students don't kno	portfolio for DEI. tudents, create family ow how to navigate			
	<ol> <li>Building community: Need more Native American population, th collections; Make people aware</li> <li>Action Item: Meet with learning council</li> </ol>	eir group is too sm		e		



005	Call with Keith Gehres	Perkins + Will
	1. Both master plans should have similar numbers; Enrollment growth is	
	unexpected and could become a problem, need to add facilities.	
	<ol> <li>Goal forward - want to be 8300 - 8700 new beginners - all dependent on what leadership decides.</li> </ol>	
	<ol> <li>PW projections: 2030 enrollment of 45,500; Keep in alignment with</li> </ol>	
	Purdue SP and Classroom MP.	
	Action Item: ASG to take the lead on creating first stab at enrollment and bounce off Keith/PW for review	
006	Working Group Meeting - Website Experience	Perkins + Will
	1. Missing important stuff; Can't get everything done; Focus on front page;	
	Real state in front page should be right size; Not user friendly; Not set up	
	for students.	
	<ol><li>Have physical and virtual exhibits for archives; Library doors to be adapted with information; students are afraid to talk inside.</li></ol>	
007	Physical and Virtual Branding	Perkins + Will
	1. Weaknesses: Lack of awareness of brand and serv ices; Each library has	
	own identity; Physically scattered; Names of libraries and their relation.	
	2. There is no student success center: Can encompass research, diversity,	
	inclusion; Have students to guide and faculty with general public.	
208	New Emerging Programs and Services	Perkins + Will
	1. Derek, lead the team through insights received from memorable library	
	experience, culture discussion and visual listening summary.	
	<ol> <li>Consistent interface/brand (creates the framework)</li> <li>Inclinal place exercises to deviational place for in between in parameter</li> </ol>	
	<ol><li>"online" class seats (space to do virtual class for in between in-person courses)</li></ol>	
	<ol> <li>Knowledge gallery; Center for digital scholarship</li> </ol>	
	<ol> <li>More/Better/Enhance: Interactive noisy spaces; Expanded archives</li> </ol>	
	display need more engagement; More study rooms; Virtual reference with	
	screen sharing; More embedded collaboration classrooms; Articulate the	
	value of library, "best spaces for students to learn".	
009	Purdue THINK	Perkins + Will
	1. Implementation: Locker space; Redesign the pilot HSSE Family Room;	
	General awareness of library resources; Microwaves in library spaces.	
	2. Questions: From conversation with students, private spaces are in high	
	demand. For 1 - 2 students, different disabilities - how do you design in	
	existing buildings? Action Item: Engage with Purdue THINK in March/April to review scenarios	
010	Purdue For Life Foundation	Perkins + Will
	1. How can library support development: Lifetime learning; Want to connect	
	600,000 living alumni, 45% of alumni live in the state, retirement trend	
	back to university; Special collections/archives; Human Library; Alumni connection; WALC.	
	connection; WALC. 2. Foundations: Purdue associated with archives; Fundraising goal will come	
	from master plan; Students are looking for mixed use spaces.	
ווכ	Dean's Advisory Council & Finance	Perkins + Will
	1. Operations: Meet twice a year; Monthly zoom during the pandemic;	
	Worked with libraries with mental health and what role they play.	
	<ol> <li>Usually talk about changing the role of the library; Collaborative study;</li> </ol>	
	High end tech and instant tech; Maker sessions, 3D printing.	
	3. A part of any collaborative space is access to the electronic resources; So, libraries are involved in all collaboration spaces.	
	Action Item: Need to understand student's journey on campus and what	
	resources they can access	

## PURDUE UNIVERSITY

012	LCSSAC & LAPSAC Perkins + Wil						
	1. Meet once a month; Discuss issues staff may have, HR questions,						
	questions for the dean, Rich is the chair.						
	2. Each library has different constrains, resources, etc. Staffing is too low and						
	stretched very thin.						
	3. Design front desk to have option with students to come up and address						
	accessible needs; Archives don't feel like part of the library.						
	4. As burned out as people are on zoom, will remain component - hungry for						
	connection.						
	5. Ensure hybrid will work with technology.						
	Action Item: If we redesign spaces, check in with staff who are in that space						
013	Wrap Up with Working Committee Perkins + Wil						
	1. Separate public facing exhibits from curriculum exhibits						
	2. Remote Working: 10% - 100% remote; 50%-60%-hybrid workers (4:1 or 3:2						
	days on campus); Rest is 100%.						
	Action Item: PW to draft agenda of precedent tours; Get copy of STEW design						
	work from Drew (HICKS vertical expansion study, STEW connector, STEW						
	renovation, EDI, data science moves); Set up meeting with Allison/Michael to						
	review campus master plan (follow up to previous discussion); Res life/housing						
	master plan - get from Allison						
014							
014	Campus Planning with Michael Gulich Perkins + Wil						
014	Campus Planning with Michael Gulich Perkins + Wil 1. Projects related to Stewart: Feb 2020, saw precedent examples with						
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014	Campus Planning with Michael Gulich       Perkins + Wil         1.       Projects related to Stewart: Feb 2020, saw precedent examples with         Payette; Building west of new STEM building; Can we renovate Schleman         hall for data science, instead of building new?         2.       Board authorization to renovate Schleman Hall: 300 staff, need to be         relocated; moving 800 staff to make the project a reality.         3.       STEW/PMU/HICKS: Both combined as one construction project; one relies						
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or omissions.



### PRESENTATION SLIDES



# Purdue University Library Master Plan Working Group Meeting

December 6, 2021

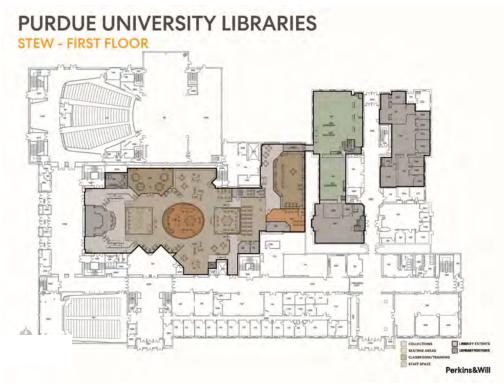
Perkins&Will

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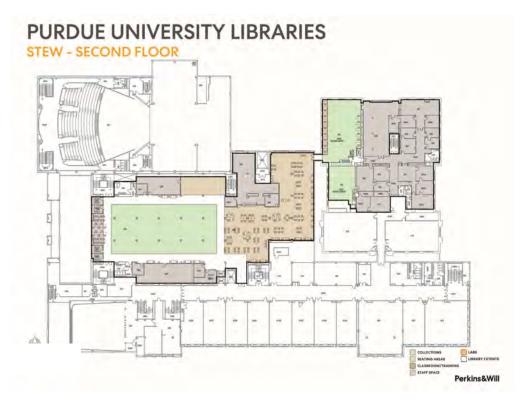


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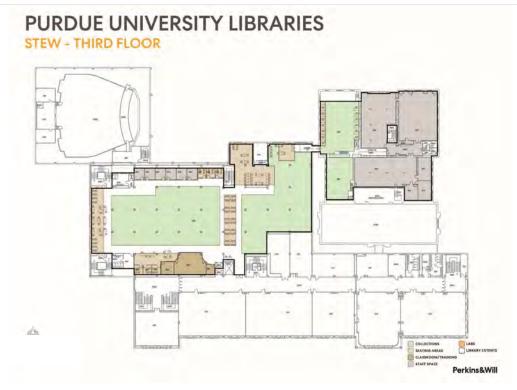


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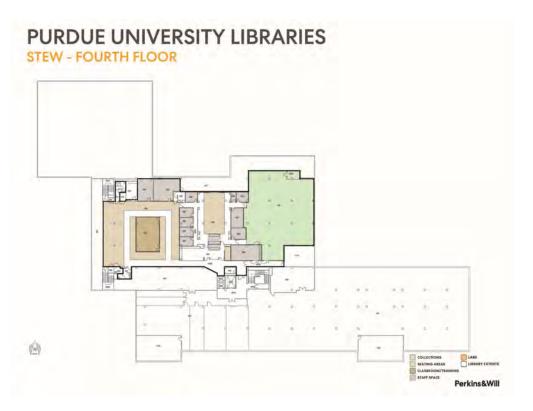


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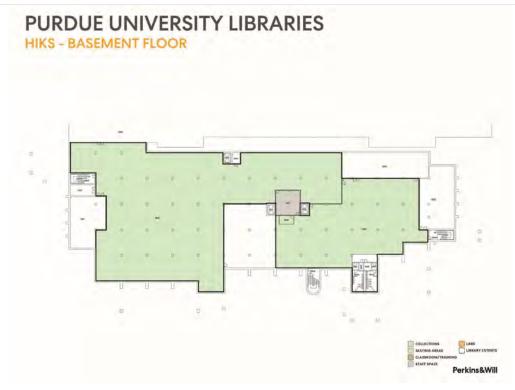


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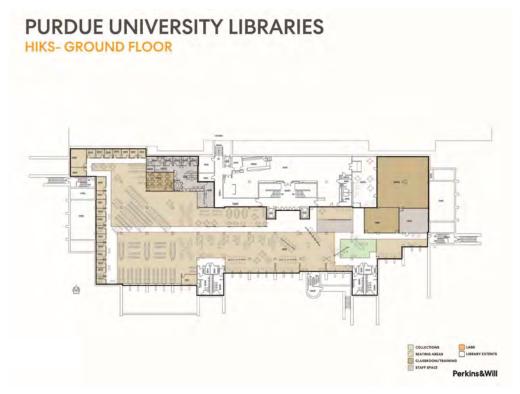


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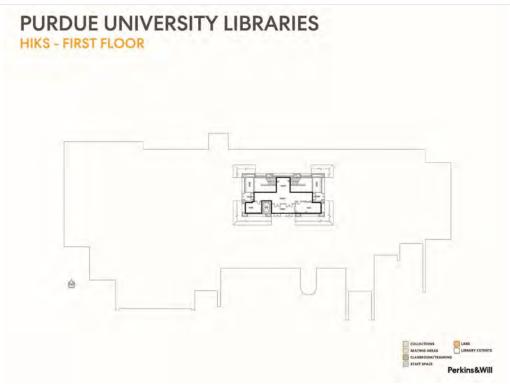


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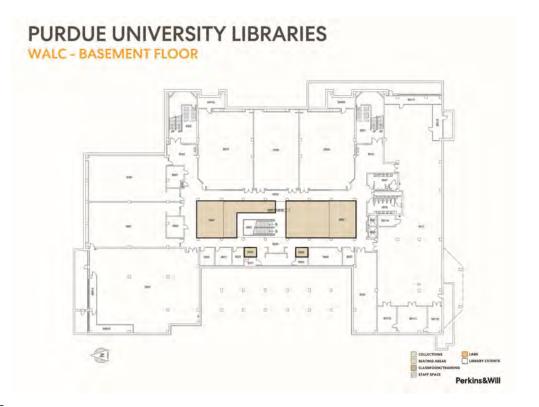


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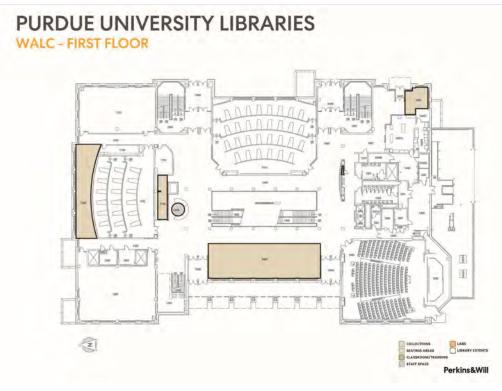


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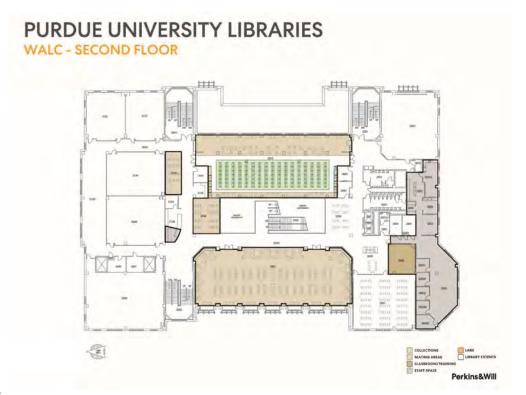


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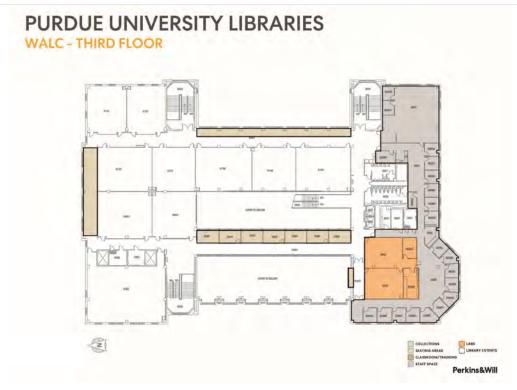


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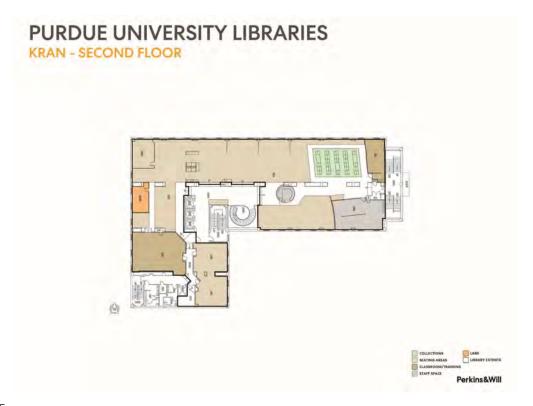


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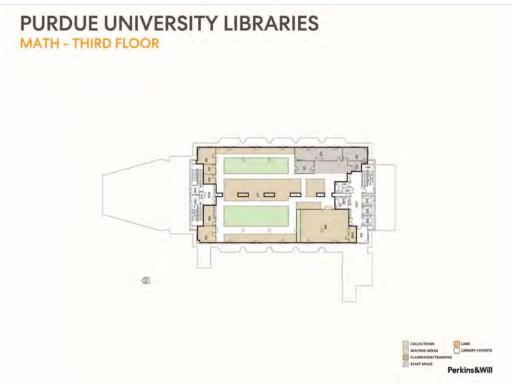


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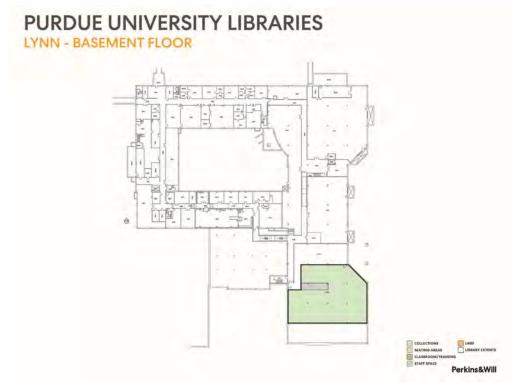


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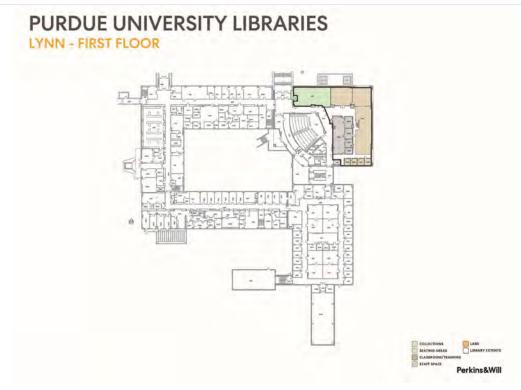


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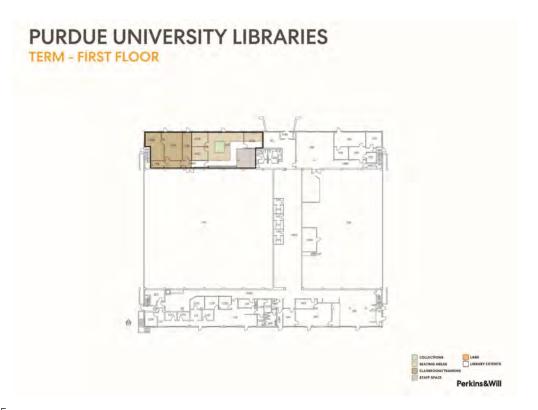


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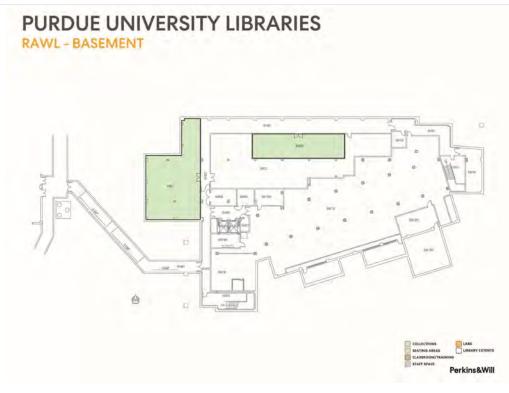


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### **Area Discrepancies**

2.00	-	Purdue	PW Measure	Variance
Vet Med	LYNN	17913	18,275	2.0%
Rawls Hall	RAWL	3617	3,705	2.4%
Hicks Undergrad	HIKS	71607	69,975	-2.3%
Bus/Mgt	KRAN	14127	14,120	0.0%
Mathematics	MATH	7774	7,920	1.9%
HSSE	STEW	127796	125,505	-1.8%
Aviation	TERM	2196	2,295	4.5%
Wilmeth	WALC	33954	35,470	4.5%
		<b>278,984</b> :	sf 277,265	sf -0.6%

## Perkins&Will

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Area Allo	ocations
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LIBRARY -	BUILDING	LEVEL	tollismons	Sa TING.	staff 0	u Alexand SP	ec. Pros.	SUETETAL	CIEC/INFRA	TOTAL
Humanities, Social Sciences, and Education (HSSE)	STEW	1	7,385	8,560	1.630	2,755	1,850	27,990	5,865	33,555
		2	11,545	5,250	11,920			31,515	6,615	37,530
		3	12/135	2,200	7.130	920		22,485	11,245	33,730
Archives/Step. C	COHL:	4	0.	3,090	Ū.	0		3,090	0	3,090
		Total	90,865	22,200	26,480	8,685	1,850	85,080	22,825	107,905
		*	36%	26%	31%	4%	2%	100%	21%	100%
Undergraduate Library	HIKS	в	the second second					-0	1,130	1,130
		G	650	17,540	2,965	4,115		35,270	7.750	33,076
		1							1,515	1.515
		Total	650	17,540	2,965	4,115	0	25,270	10,355	35,665
		*	3%	69%	12%	16%	0%	100%	29%	100%
Library of Engineering Sciences (LOES)	WALC	в		2,750				2,750		2,750
		1		3,765	85			3,850		3,850
		2	1,955	10,555	3,500	470		15,480	1,275.	17,755
		3		24.95	545		1,900	17/080	.45	11.115
		Total	1,955	19,705	10,130	470	1,900	34,160	1,310	35,470
		16	636	58%	30%	1%	5%	100%	4%	100%
Parids Bhrany	KRAN	2	755	7,720	1,020	1,620	255	11,370	2,750	14,120
and the second se		- 96	7%	68%	506	14%	26.8	100%	19%	100%
Mathamatical Sciences Library	MATH	3	1,415	3,410	1,645			5,870	2,050	7,920
1		*	24%	58%	18%	0%	0%	100%	26%	100%
Veterinary Medicine Ulerary	LYNN	в	1.000					ò	1000	0
and the second		1	1,580	3,890	1,705			7,175	1,610	6,785
the second se		Total	1,580	3,890	1,705	0	0	7,175	1,610	8,785
			22%	54%	24%	0%	0%	100%	18%	100%
Aviation and Transportation Technology Library	TERM	3	95	735	215	895		1,940	355	2,295
		к.	5%	38%	11%	46%	0%	100%	15%	100%
PURDUE LIBRARIES										_
TOTAL (w/d Repository or A/SC)			37,315	75,200	43,560	10,785	4,005	170,865	41,295	212,160
PERCENTAGE			21,8%	44.0%	25.5%	6,3%	2.8%	100.0%	19.5%	100.0%
Additional Repository	HIKS	B	33,700		\$10			34,310		34,310
	LYNN	8	9,065		425			9,490		9,490
	RAWL	B	3,705					3,705		3,705
		Total	46,470		1,035			47,505		47,505

# Perkins&Will

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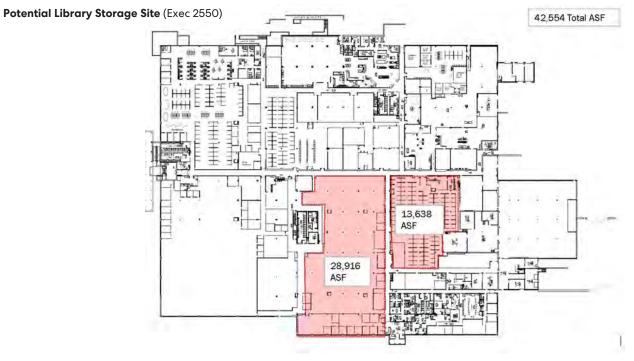
### **Area Allocations**

LIBRARY	BUILDING	LEVEL	COLLECTIONS	SEATING	STAFF	CLASSROOM	SPEC. PROG.	SUBTOTAL
PURDUE LIBRARIES								
TOTAL (w/o Repository or A/SC)			37,315	75,200	43,560	10,785	4,005	170,865
PERCENTAGE			21.8%	44.0%	25.5%	6.3%	2.3%	100.0%
General Benchmark								
PERCENTAGE - BENCHMARK			25%	45%	15%	5%	10%	100%
PERCENTAGE VARIANCE			3%	1%	-10%	-1%	8%	

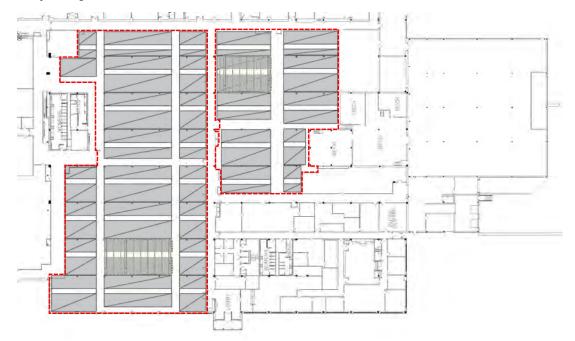
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### Potential Library Storage Site (Exec 2550)

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#### Potential Library Storage Site (Preliminary Test Fit) 42,554 Total ASF Ő œ 5 Exist. Repository: 157,242 LF 1 1 RIG 6-7 high shelving (84") 90+% filled . Lynn: 18,810 LF HKRP: 138,432 LF ۰ -• Microfilm not included? THE HEAD 77 ą Low: 200,648 LF 7-high shelving (84") ٠ 10 • 85% filled 2.0M volumes 무 • 27% increased capacity 11 59.472 lf High: 229,312 LF 冠 8-high shelving (96") • • 90% filled 乾 2.4M volumes ٠ . 45% increased capacity 141,176lf -i a ş T TIT

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### **Enrollment Projections**

### **Confirm Assumptions:**

- 2030 UG FTE = 38,000
- 2030 Grad FTE = 7,500
- 2030 Total = 45,500
- 10-yr horizon= 2032?

		UG: FTE	PROF UG FTE	GRAD FTE	TOTALFTE	GROWTH RATE	3-yr Avg.	4-yr Avg.
	Fall 2016	29,434.4	1,439.7	7,269,5	38,143.6		100	
10	Fall 2017	30,330.7	1,412.5	7,319.3	39,062.5	2.41%	2.24%	2.83%
2	Fall 2018	31,957.4	1,433.8	7,467.0	40,858.1	4.60%		
EA	Fall 2019	32,854,2	1,455.6	7,568,7	41,878.5	2,50%		
~	Fail 2020	33,959,1	1,476.0	7,197,7	42,632,8	1,80%		
-		2020 UG =	= 35,435					

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### **Enrollment Projections**

Confirm	Accumptions	

- Confirm Assumptions: 2030 UG FTE = 38,000 2030 Grad FTE = 7,500
- 2030 Total = 45,500
- 10-yr horizon= 2032?

		UG: FTE	PROF UG FTE	GRAD FTE	TOTAL FTE	GROWTH RATE	3-yr Ave.	4-yr Avg.
	Fall 2016	29,434.4	1,439.7	7,269.5	38,143.6			
DUT	Fall 2017	30,330.7	1,412.5	7,319.3	39,062.5	2,41%	2.24%	2.83%
	Fall 2018	31,957.4	1,433,8	7,467.0	40,858.1	4,60%		
YEARS	Fall 2019	32,854.2	1,455,6	7,568.7	41,878.5	2.50%		
2	Fall 2020	33,959.1	1,476,0	7,197.7	42,632,8	1,80%		
	1.1				2.24%	1.15%	1.087%	1.00%
2	Fall 2020			_	42,633	42,633	42,633	42,633
1	Fall 2021				43,586	43,123	43,096	43,059
2	Fall 2022				44,561	43,619	43,565	43,490
3	Fall 2023				45,557	44,121	44,038	43,925
4	Fall 2024				46,575	44,628	44,517	44,364
5	Fall 2025				47,617	45,141	45,001	44,808
8	Fall 2026				48,681	45,660	45,490	45,256
7	Fall 2027				49,770	46,185	45,984	45,708
8	Fall 2028				50,883	46,717	46,484	46,165
9	Fall 2029				52,020	47,254	46,990	46,627
10	Fall 2030				53,184	47,797	47,500	47,093
11	Fall 2031				54,373	48,347	48,017	47,564
12	Fall 2032				55,588	48,903	48,539	48,040
13	Fall 2033				56,831	49,465	49,066	48,520
14	Fall 2034				58,102	50,034	49,600	49,005
15	Fall 2035				59,401	50,610	50,139	49,495
15	Fall 2036				60,729	51,192	50,684	49,990
17	Fall 2037				62,087	51,780	51,235	50,490
18	Fall 2038				63,475	52,376	51,792	50,995
19	Fall 2039				64,894	52,978	52,355	51,505
20	Fall 2040			1	66,345	53,587	52,924	52,020
21	Fall 2041				67,829	54,204	53,499	52,540
22	Fall 2042				69,345	54,827	54,080	53,066
23	Fall 2043				70,896	55,457	54,668	53,596
24	Fall 2044				72,481	56,095	55,263	54,132
25	Fall 2045				74,102	56,740	55,863	54,674

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### **Enrollment Based Seating Projections**

Existing Library Seats:	% FTE	Seats				
Per 2020 ACRL Survey	10%	5,177	Includes 2,294 W	eats		
Per 2020 ACRL Survey	5%	2,883	Without 2,294 W	eats		
Target Enrollment 2030		47,500				
Target 2030 Seats:	% FTE	Seats 4,750 7,125 8,313	Delta w/ clrm			sf
Commuter Campus	10%		427	@30sf/seat ) @30sf/seat	12,809	
Low Residential	15%				(58,442)	
PURDUE	17.5%			@30sf/seat	(94,067)	
High Residential	20%	9,500	(4,323)	@30sf/seat	(129,692)	sf
			Delta w/o cirm			
Commuter Campus	10%	4,750	(1,867)	@30sf/seat	(56,011)	sf
Low Residential	15%	7,125	(4,242)	@30sf/seat	(127,262)	sf
PURDUE	17.5%	8,313	(5,430)	@30sf/seat	(162,887)	sf
High Residential	20%	9,500	(6,617)	@30sf/seat	(198,512)	sf

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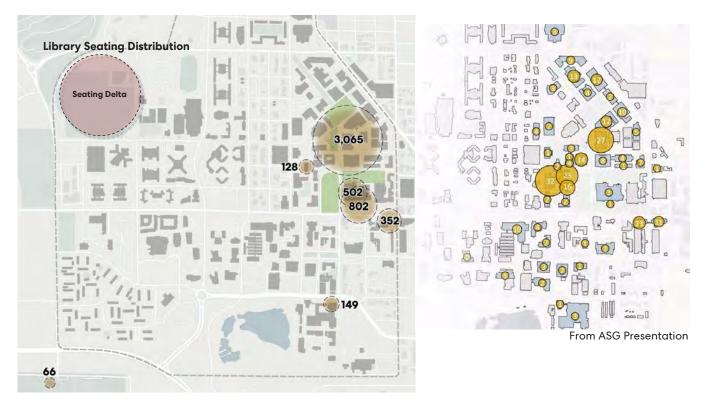


**Overview** 

291 total classrooms = 329,330 NASF across 47 buildings

- NASF range: 340 to 6,944
  - Average = 1,000 1,200 sf
  - Most frequent = 400 600 sf
- 5,699 student stations
  - Room capacity range = 16 480 stations
  - Average = 65 stations
  - Most frequent = 40 stations
- NASF/station: 10 30
  - Average NASF/seat = 19
  - Most frequent NASF/seat = 15
  - 192 classrooms have less than 25 sf/seat
- 88 designated as "active learning"
  - 20 180 stations @ 15 30 NASF/station

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Slide 30 of 65





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# **Cost & Implementation**

### Initial Spaces to measure:

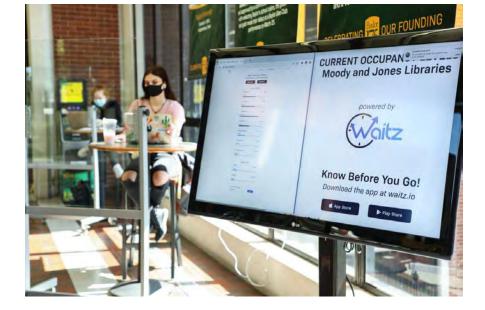
- HSSE Level 1
- HSSE Level 2
- HSSE Level 3
- HIKS Level G
- WALC Level 2

### **Cost Structure:**

- 36 Sensors
- \$59/month per sensor
- \$ 8,372 for 3-month deployment
- \$12,620 for 5-month deployment

### Implementation Timeline:

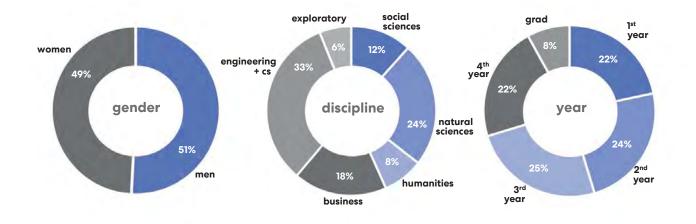
- <u>Clear with Univ. IT</u>: 2-weeks
- Order lead time: 4-weeks
- Install by: January 10, 2022
- <u>Calibration</u>: 2-weeks
- Begin data collection: late-January



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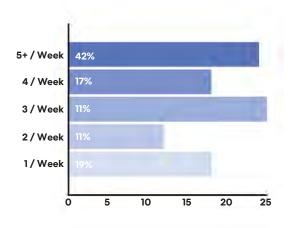
# **Student Intercept Interviews**



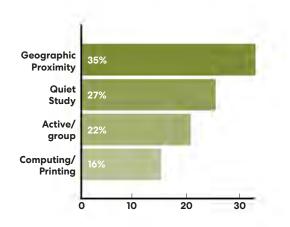
Slide 33 of 65

# **Student Intercept Interviews**

# Utilization



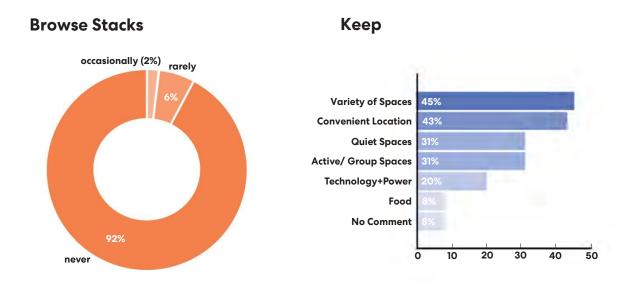
# **Primary Use Drivers**



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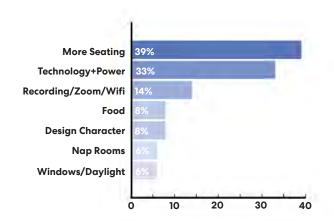


# **Student Intercept Interviews**



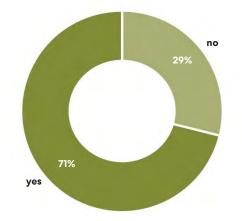
Slide 35 of 65

# **Student Intercept Interviews**



Change

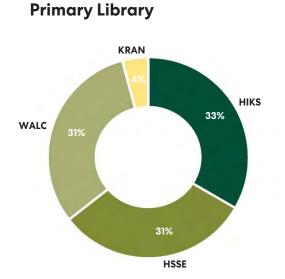




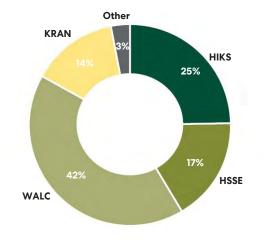
Slide 36 of 65



# **Student Intercept Interviews**



# **Secondary Library**



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# **Student Intercept Interviews**

## In their own words . . .

"I have my specific carrell that I study at. Nowhere else."

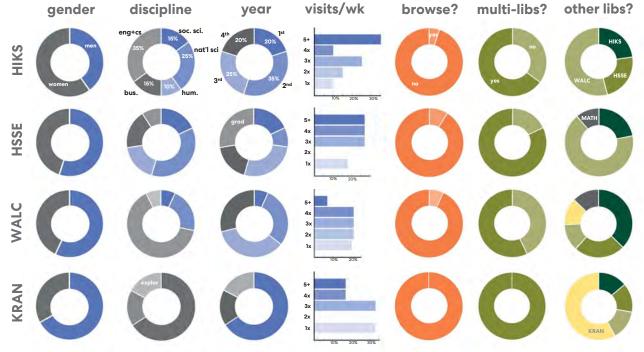
"I take a lot of long walks around HSSE trying to find a seat."

"A nap room would be great – I lose too much time going home after class."

"I don't care about natural light or furniture. I just need power."

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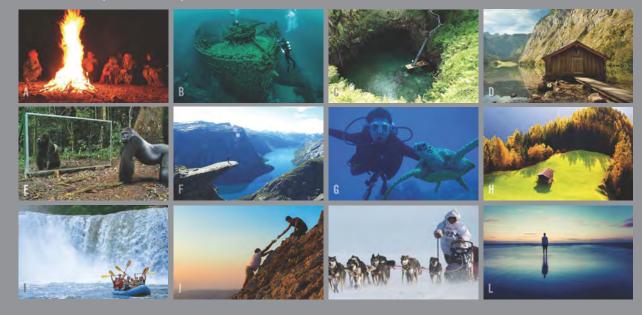


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Slide 40 of 65





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### Student Workshop: Preferred Experience

OFFERS THIS EXPERIENCE OFFERS IT A LITTLE DOES NOT OFFER EXPERIENCE



CONCENTRATION PEACE PRIVACY FOCUS DIFFERENTIATED



SUPPORT PROGRESS RESOURCE HELPFUL

COLLABORATION TEAM WORK PASSION WARMTH



COZY INDIVIDUALIZED SERENE

TEAMWORK LIGHTING FUN

SERENITY VISIBILITY EXPLORATION GROWTH

Slide 42 of 65

171



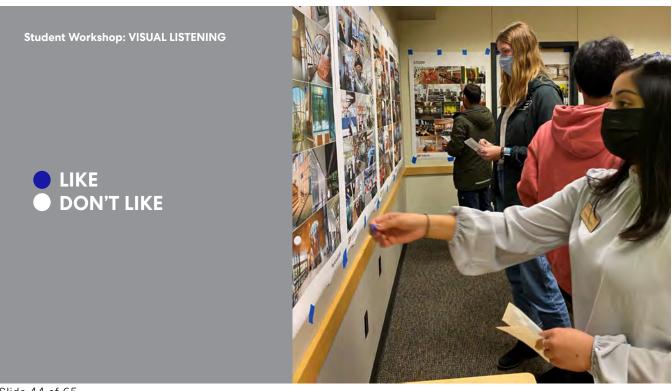
### Student Workshop: KEEP | TOSS | CREATE

KEEP: SOME BOOKS SPACES WITH "VOLUME" TOSS:

POOR INTERIOR FINISHES HARD, STODGY CHAIRS IMPERSONAL LAYOUT LIBRARY=ALWAYS QUIET FORMALITY FACED WITH LIBRARIAN AT ENTRY UNIVERSITY DINING IS TOO FAR **CREATE:** 

CURATED BOOKS NATURAL LIGHT CLEAR & OPEN WAYFINDING CONFERENCE STYLE STUDY TIERED SEATING PRIVATE & ERGONOMIC IDEA SPACE WRITABLE SURFACES MOVEABLE WHITEBOARDS ADJUSTABLE FURNITURE FURNITURE THAT MAKES YOU MOVE COWORKING ADEQUATE POWER INTERDISCIPLINARY COLLABORATION

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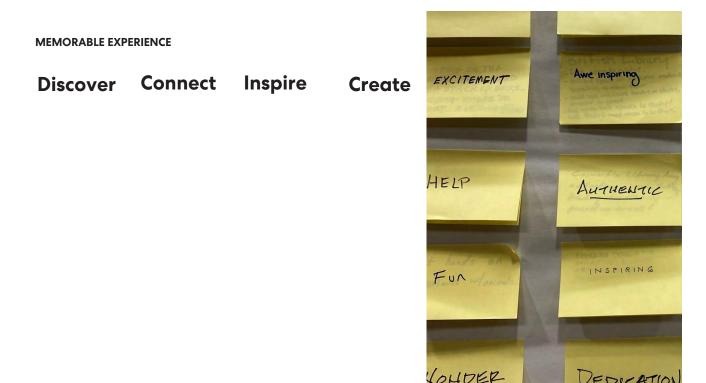


# Compelling Vision: "more than books" Doubling down on the "experiential" Collections are protected Maintain: 1-in / 1-out Don't lose sight of student needs Student success

# **Core Group Exec. Committee**

Library is visible & welcoming Accessible: extension of classroom Support Innovative Learning Co-educators of transformative ed Embrace the "metaverse" Center of mass: online experience Don't overdo the tech | Belonging; access; connected; inclusive

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Slide 46 of 65



## MEMORABLE EXPERIENCE

## Discover

Knowledge Journey Authentic Serendipity Emotional Belonging Community Help

Connect

Inspire

## Create

Energizing Exciting Awe Inspiring Fun Inspiring Peaceful Dedication Wonder

(?)



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Purdue Library Culture: Past & Future										
Past Culture	Future Culture									
Welcoming Siloed Alone Hidden Temporarily Connected Tennuous Patchwork Reactive Juggling Tool User	Inclusive Co-Creation Interconnected Together Campus Gateway Permanently Bonded Streamlined Interoperability Proactive Anticipate Tool Maker									

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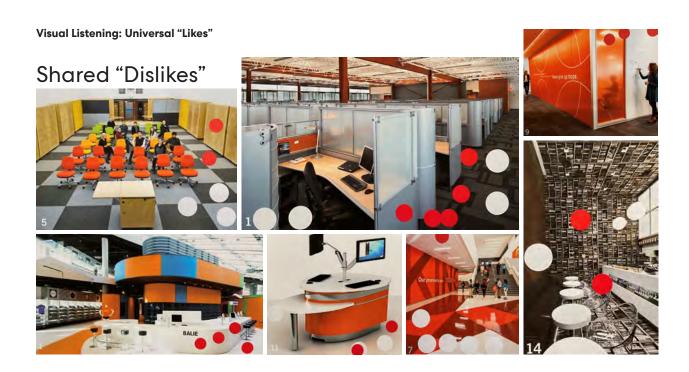
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## **Overview**

291 total classrooms = 329,330 NASF across 47 buildings

- NASF range: 340 to 6,944
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  - Room capacity range = 16 480 stations
  - Average = 65 stations
  - Most frequent = 40 stations
- NASF/station: 10 30
  - Average NASF/seat = 19
  - Most frequent NASF/seat = 15
  - 192 classrooms have less than 25 sf/seat
- 88 designated as "active learning"
  - 20 180 stations @ 15 30 NASF/station

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## Visual Listening:



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**Visual Listening:** 



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Visual Listening Recap: Common Themes

Formal	Casual
Daylight	Open & Airy
Interconnected	"Stairitorium"
Collaborative	Choice
Natural Materials	Outdoor Connection
Natural Materials	Outdoor Connection
Presence of Books	More Than Books

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Visual Listening Common Themes Recap:

## Formal



## Perkins&Will

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## Casual



## Perkins&Will

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Visual Listening Common Themes Recap:

# Daylight



## Perkins&Will

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# Open & Airy



## Perkins&Will

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Visual Listening Common Themes Recap:



## Perkins&Will

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## "Stairatorium"



## Perkins&Will

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Visual Listening Common Themes Recap:



## Perkins&Will

Slide 60 of 65



## Choice



## Perkins&Will

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Visual Listening Common Themes Recap:

## Natural Materials



## Perkins&Will

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## **Outdoor Connection**



## Perkins&Will

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Visual Listening Common Themes Recap:

## Presence of Books



## Perkins&Will

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## More Than Books



## Perkins&Will

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## Workshop 3: January 14, 2022

## **Meeting Details**

Meeting Date:	1.14.2022	Project Name:	Purdue University Libraries Master Pl			
Meeting Time:	1:30 PM	Project Number:	021661.000			
Meeting Location:	Via Teams	Attendees:	Jessica Figenholtz, Derek Jones, I Jones, Beth, Rebecca, Drew, Allis Michael, Dorothy, Scott, Flo, Step			
Discussion						
ITEM NO.	DESCRIPTION			RESPONSIBILITY		
001	<ol> <li>Workshop #3         <ol> <li>Groupings of Parking: Kno digital scholarships.</li> <li>Concerns: Struggle on cam daytime, shift to study spa behavior.</li> <li>Jessica: On draft vision to is not mentioned; Like the 4. Analysis on physical and o page; "Study spaces in libr Use better photos.</li> <li>Non-library study spaces: I</li> <li>Area Allocation: Add a coll long-term facility; Looking</li> <li>Library Locations: HSSE, hu HIKS bubble size in diagrai</li> </ol> </li> <li>Action Item: PW to send draft visio and review. PW to review data wit correctly. Allison to take the lead.</li> </ol>	pus with online learning; ces when non class time, aream: Is use of 'scholars' t use of "bridge" nline observations: Does ary: over breakdown by t Need more seats; is 35sf umn to accommodate sh for more space in HSSE. ub for current location? V m does not include repos in to team with service d th Gina's team to ensure	Most classes are change policy or too specific? Research each library need a type, what's right mix? the right metric? elving; HIKS in not a Vhat about dual hub? itory. <b>rivers for comment</b> <b>spaces are coded</b>	Perkins + Will		

**Please note:** The foregoing constitutes our understanding of matters discussed and conclusions reached. Other participants are requested to review these items and advise the originator in writing of any errors or omissions.



## **PRESENTATION SLIDES**



## Purdue University Library Master Plan Workshop #3

January 6, 2022 - Working Group

Perkins&Will

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## Agenda

Introduction & Overview

Summary of Workshop #2

- Brand Workshop Summary
- Priority Programs

## Work In Progress

- Library Brand Presence Analysis
- Draft Project Vision Statement
- Offsite Repository and Seating Assessment
- Geographic Distribution of Library Facilities

#### Wrap Up & Next Steps



Workshop #2 User Group Session

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## **Master Plan Process**



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## **Outstanding Data Collection**

## **Drew & Allison**

JLL Workplace Space Needs Study Construction Drawings (on hold) Copy of Press Release (issue in January) Copy of STEW design work

## Beth

**Enrollment Assumptions** 



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## Sensor Technology

## Initial Spaces to measure:

- HSSE Level 1, 2, 3
- HIKS Level G
- WALC Level B, 1, 2, 3
- MATH Level 3
- KRAN Level 2
- LYNN Level 1
- TERM Level 1

## Implementation Timeline:

- <u>Clear with Univ. IT</u>: Complete
- Ship Test Sensors: Jan. 10, 2022
- <u>Install+Callibration</u>: Jan. 24-31, 2022
- Begin data collection: February

## **Cost Structure:**

- 73 Sensors
- \$12,585 for 5-month trial
- \$ 11,315 for 7-month extension

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Visioning Workshop #2 Summary

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# **Mission, Vision, Values**

**Purdue Libraries** 

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Libraries and School of Information Studies

Mission

We lead in research, teaching, and learning, and create and provide equitable access to diverse resources, outstanding services, and innovative spaces, for Purdue's local, national, and international communities.

Slide 8 of 95



Libraries and School of Information Studies

## Vision

Purdue University Libraries and School of Information Services will be a proven leader and impactful partner in the pursuit of transformational teaching and learning, research excellence, and meaningful engagement and outreach.

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Libraries and School of Information Studies

Values

Innovation

Collaboration

Equity

Stewardship

Service

Agility

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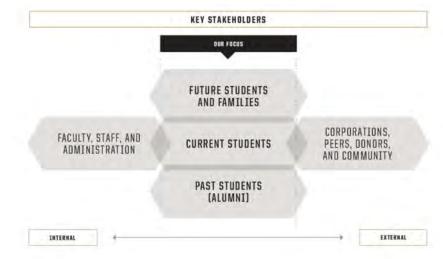


# **Audiences**

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## Audience Types – Purdue University

Our Brand is built around five (5) key stakeholder groups that shape the experience we create.



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Audience Types	
All Students	Visitors & Visiting Scholars
All Faculty	Prospective Students
Staff	Academic Community
Public Community Members	Researchers
Alumni	Student Families
Donors	EDI   BIPOC   LGBTQ
Retirees	Creative Thinkers
Global "Citizens" & Students	Needs-Based Users
On-Line Participants	Users of Study Spaces
Event Attendees	All Abilities, Ages, Cultures, Languages

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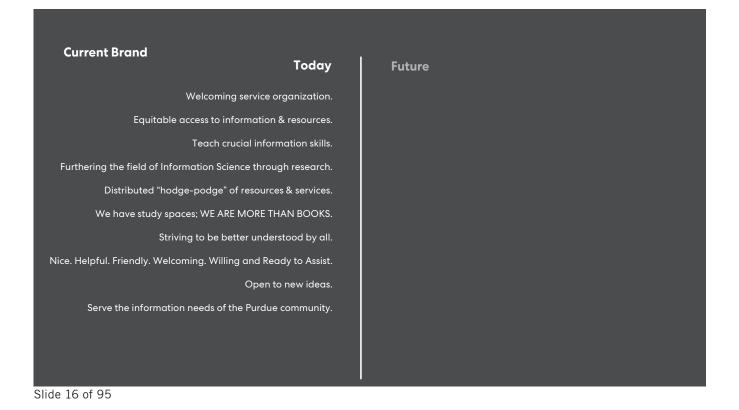


## **Current Brand**

"We are a **welcoming service organization** that struggles to define itself and strives to be better understood by students, faculty, staff & administration."

"We are **more** than books."

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Current Brand	Today	
Welcoming	g service organization.	
Equitable access to inf	ormation & resources.	
Teach cru	ucial information skills.	
Furthering the field of Information Scie	nce through research.	
Distributed "hodge-podge" c	of resources & services.	
We have study spaces; WE ARE	MORE THAN BOOKS.	
Striving to be be	tter understood by all.	
Nice. Helpful. Friendly. Welcoming. Willin	g and Ready to Assist.	
Students don't know how many libraries	there are on campus.	
Students don't know	what we have to offer.	
	Open to new ideas.	
Lack structure & forethought to support	new ideas in long run.	
Serve the information needs of t	he Purdue community.	

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**Future Brand** 

"Cohesive, complementary and inclusive portfolio of **resources and experiences** that allow for growth, experimentation, and full engagement by all."

"Discover, create, innovate. Let us inspire you!"

Slide 18 of 95



# Future Brand Future An Information Service Hub for Purdue...so much more than books! An Information Service Hub for Purdue...so much more than books! Cohesive. Complementary. Inclusive. Discover. Create. Grow. Innovate. Let us inspire you. Advancing leadership and the profession through critical research. Portfolio of resources, experiences and experimentation for all. Dynamic multi-space environment with great resources. Responsive services and staff at the academic forefront. Expert level instruction and personalized guidance. Connected within our organization, the university, the community. and the world.

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# Brand Recap Today Fr Welcoming service organization. Additional and the seconces. Additional and the seconce and the seconce

## Future

An Information Service Hub for Purdue...so much more than books! Cohesive. Complementary. Inclusive. Discover. Create. Grow. Innovate. Let us inspire you. Advancing leadership and the profession through critical research. Portfolio of resources, experiences and experimentation for all. Dynamic multi-space environment with great resources. Responsive services and staff at the academic forefront. Expert level instruction and personalized guidance.

Connected within our organization, the university, the community, and the world.

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# **Story-Telling**

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### **Stories**

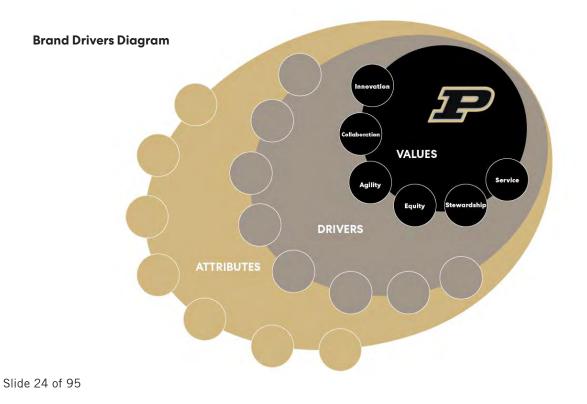
- Our History | Our Archives | Our Collections A Place for Knowledge Creation Authentic Source of Information Patents, Firsts, Innovations at Purdue Your Experience Begins at Purdue Libraries Research & Explore Study, Learn, Collaborate, Innovate, Celebrate Physical Places & Spaces Information Literacy
- Library Locations & Specializations Our Services, Resources & Tools...More than Books! Personal-Touch Assistance...Let Us Help You! At Purdue, it's Cool to be Smart The Digital Experience We are ONE Library System Our Expanded Network Our Rich Database Vital Partnerships

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# **Prioritization Tools**

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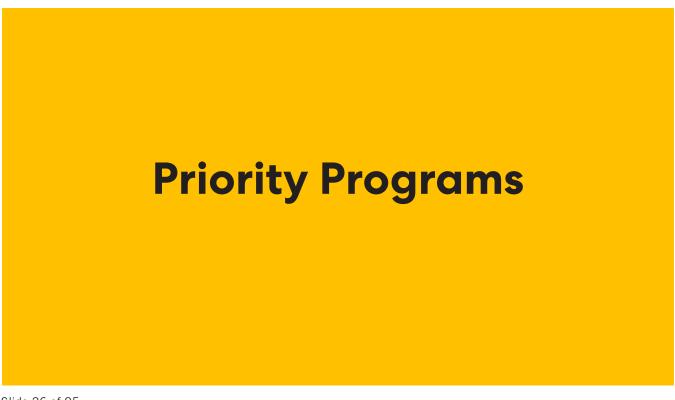




## **Strategic Opportunities Matrix**

	Hicks Undergraduate	2 Humanities, Social Sciences and Education	3	Management and Economics	4	Engineering and Science	5	Veterinary Medical	6	Mathematical Sciences		Aviation and Transportation Technology	8	Archives and Special Collections
Exterior Identity														
Interior Identity														
Exhibits/Gallery														
Signage														
Web Presence														
Digital/"Smart" Presence														
											PRIMARY	SECONDARY FOCUS	TERTIA	RY

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**Priority Programs** 

## KNOWLEDGE GALLERY

Showcase what others are doing Exhibit new scholarship SC/A display New & noteworthy coll<u>ections</u>

# THE BEST PLACE FOR ...

## VIRTURAL LEARNING HUB

Individual seating for online learning Group seating for online learning Tools & resources for virtual learning

## CENTER FOR DIGITAL SCHOLARSHIP

Digital Humanities/Scholarship E-Archives / E-Pub Digitization One Button/Lightboard/Recording Data/GIS Walk-In Services

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**Priority Programs** 

# THE BEST PLACE FOR ...

## KNOWLEDGE GALLERY

Showcase what others are doing Exhibit new scholarship SC/A display New & noteworthy collections

## VIRTUAL LEARNING HUB

Individual seating for online learning Group seating for online learning Tools & resources for virtual learning

## CENTER FOR DIGITAL SCHOLARSHIP

Digital Humanities/Scholarship E-Archives / E-Pub Digitization One Button/Lightboard/Recording Data/GIS Walk-In Services

COLLECTION BASED PROGRAMS	SC/A ENGAGEMENT	SANCTUARY SPACE Outdoor Area	EXPERIMENTAL TEACHING & LEARNING CTR	ROBUST Makerspace	AR/VR Research
	NON-TRADITIONAL Student Lounge	CAFÉ/FOOD Service Interactive Learning Zone	STUDENT REST/NAP ROOM MORE EMBEDDED COLLAB. CLASSROOMS	STAFF/FACULTY LOUNGE QUIET STUDY ZONE	GRADUATE Study Room More Study Rooms

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# **Project Vision**

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# PURDUE UNIVERSITY BRAND

Purdue University is about the **persistent pursuit of innovation** where people bring their best and learn to build a better world together.

# Or more simply:

Persistent Innovation. Together.

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# **DRAFT PROJECT VISION STATEMENT**

## **SERVICE DRIVERS**

1. Welcoming to all

- 2. THE HUB for knowledge and scholarship sharing
- 3. THE integrated Center for Digital Scholarship
- 4. Host virtual and experimental learning
- 5. Seamlessly part of the "total" Purdue student experience
- 6. Resource-rich place to connect and collaborate
- 7. Promote trans-disciplinary research and learning
- 8. Unified alignment of purpose
- 9. Be more visible

## **SPATIAL ATTRIBUTES**

- 1. Visible, intuitive, accessible, inclusive: validate lived experiences
- 2. Showcase creation, scholarship, institutional legacy, and special collections
- 3. Make technology and resources seamlessly present
- 4. Integrate virtual learning seats and experimental teaching lab
- 5. Integrate brand across physical and digital spaces
- 6. Blur boundaries between formal learning and social learning
- 7. Support learning across academic and co-curricular spaces
- 8. Co-locate staff with serendipitous collaboration spaces
- 9. Consistent brand expression and physical transparency

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### **Purdue Brand Personality**

## How We Want People To Think About Purdue

### INTENTIONAL

Focused | Deliberate | Serious | Dedicated to Process

#### RESPECTED

Proven | Valuable | Credible | Reliable | Rigorous | A Brand You Can Trust

### INNOVATIVE

Intelligent | Smart | Insightful | A Dot Connector

## How We Want People To Feel About Purdue

#### INCLUSIVE

Collaborative Community | Inviting | Friendly Confident Bu | Supportive | Open-Minded | A Family | Level-He

DECEPTIVELY HARD PROUD

BALANCED Confident But Never Arrogant | Well-Rounded | Level-Headed | Smart But Also Human

EXCITING INSPIRING

DRIVEN Relentless | Persistent | Always Leaning In

WELCOME HARD SUPPORTIVE POSITIVE WORKING TEAMWORK SPIRITED UNIQUE DRIVEN DEDICATED CREATIVE INCLUSIVE FOCUSED INTEGRITY

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Perkins&Will

# **Physical | Virtual Observations**

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Areas of Observation

Hicks Undergraduate Library Humanities, Social Sciences and Education Library Parrish Library of Management and Economics Library of Engineering and Science Veterinary Medical Library Mathematical Sciences Library Aviation and Transportation Technology Library Archives and Special Collections

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## **Brand Observation Summary**

## Physical Space

Inconsistent Library name identification across the system. Each Library is unique in its design and features. Not all Libraries appear welcoming. Minimal inclusion of story-telling within the Libraries. Missing display space for Special Collections or other features. Design feature at desks integrated in many libraries. Inconsistent wayfinding and signage. Ad hoc postings cause visual clutter.

## **Digital Space**

Purdue brand leads for Libraries. Navigation to individual libraries is sometimes difficult/confusing. Landing pages are text heavy. Physical Library imagery is small and often of poor quality. Inconsistent categories across various libraries. Archives & Special Collections has strongest visual "personality". "Real-time readership" feature engaging and dynamic. Most libraries highlight availability of study & specialty spaces.

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Perkins&Will Hicks Undergraduate Library

**Purdue University Library Masterplan** 

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## **On-site Observations**

Hicks Undergraduate Library



↑ Reception

→ Office of Undergraduate Research



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**On-site Observations** 

**BRARY** DESKODO

Hicks Undergraduate Library



← Reception



Office of Undergraduate Research

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↑ Reception

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39



Perkins&Will

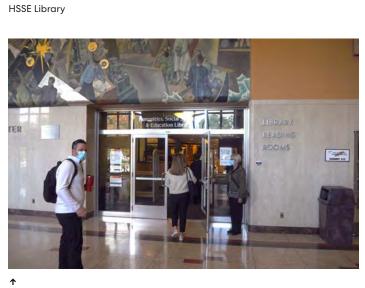


Humanities, Social Sciences and Education Library

Purdue University Library Masterplan

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**On-site Observations** 



Information Desk (left)

->



Information Desk (right)

4



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Entry



## **On-Site Observations**

HSSE Library



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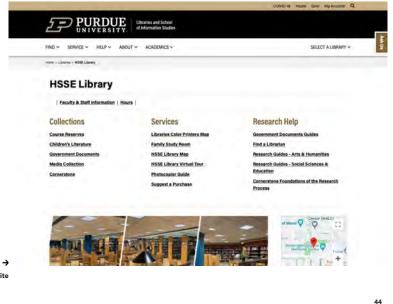
## **Online Observations**

HSSE Library

"The Humanities, Social Sciences and Education Library (HSSE), located in Stewart Center, houses a large print collection that supports scholarly research and includes nonfiction, classic literature, children's literature, government documents and periodicals. The main floor features over 70 workstations, as well as printers, photocopier/scanners, and collaborative or individual study areas. Quiet study areas are also available on the remaining two floors. Research assistance is available at the service desk and by appointment. For more information about the Stewart Mural located outside the library entrance, visit <u>The Spirit of the Land Grant</u> **College webpage**."

https://www.lib.purdue.edu/libraries/hsse

Screen capture of site



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**Perkins&Will** 

# Parrish Library of Management & Economics

Purdue University Library Masterplan

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**On-site Observations** 

Parrish Library of Management & Economics





→ Entry Signage



Donor Signage

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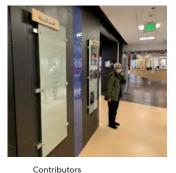


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## **On-site Observations**

Parrish Library of Management & Economics



203 Collaborative Staff Office

Room Signage



Donor Signage



47

Room Signage

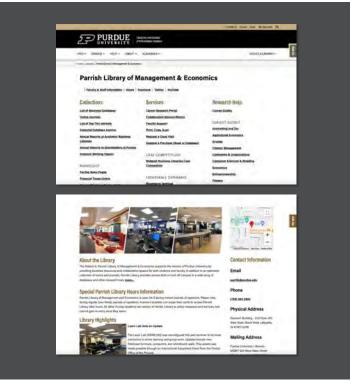
Slide 47 of 95

## **Online Observations**

Parrish Library of Management & Economics

"The Roland G. Parrish Library of Management & Economics supports the mission of Purdue University by providing business resources and collaborative spaces for both students and faculty. In addition to an extensive collection of books and journals, Parrish Library provides access both on and off-campus to a wide array of databases and other research tools."

https://www.lib.purdue.edu/libraries/mgmt



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Perkins&Will

# **Archives and Special Collections**

Purdue University Library Masterplan

Slide 49 of 95

**On-site Observations** 

Archives and Special Collections



→ Collections Storage

Archives Entry

→





← Workspace

50

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#### **On-site Observations** Archives and Special Collections



Online Observations Archives and Special Collections







Signage

Collections Storage

Signage

Specialty Equipment

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Screen capture of site

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51



Perkins&Will

# **Library of Engineering and Science**

Purdue University Library Masterplan

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On-site Observations

Library of Engineering and Science



→ Information Desk

**Central Staircase** 

→



Wayfinding Signage

4



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## **Online Observations**

Library of Engineering and Science

"The Library of Engineering and Science (LOES) in the Wilmeth Active Learning Center (WALC) holds approximately 30,000 print volumes, emphasizes the focus on provision of digital resources, and consolidates the holdings and services of six formerly separate libraries (Chemistry; Earth, Atmospheric and Planetary Sciences; Engineering; Life Sciences; Pharmacy, Nursing, and Health Sciences; and Physics) into one easily accessible location. The materials selected for the physical collection of the Library of Engineering and Science have been evaluated by Libraries faculty with input from departmental faculty. The books, reference collection, and standards have been identified as high-use, highdemand materials that best support the teaching and learning goals of the curricula within the schools and departments. LOES also houses Libraries faculty and staff members, who specialize in access to information resources in engineering and science, as well as in instructing students on how to identify, locate, critique, and retrieve scholarly information. In collaboration with their faculty colleagues in the colleges and schools, the Libraries faculty teach specialized courses and/or participate as team faculty members. Although the focus of LOES is to provide access to information in engineering and science, the use of resources and space is open to all Purdue students and faculty."

https://www.lib.purdue.edu/libraries/engsci

Screen capture of site

4

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## **Online Observations**

Library of Engineering and Science



Purdue University Libraries faculty and staff drew from their own expertise and consulted



Library of Engineering and Science Alongsist in focus on providing unparallel access to slight/resources, the Uppary of Imparating per Science holds approximately 30,000 thoughtfully outstat generate altition one says consultations. Unique Places The Multive Reading Boom features a spectacular view of Pardue University's conic Bell Searc, On the Fart Book, Au (Ser Anno Caline and Balance provider recently on the black and/on the blacks, done and in onthe Nax avera and



The WALC is a student-content facility with a variety of resources, study areas, and versatile spaces upon to all students on campus. The LASE includes the Data Vanadization Experiments and the Parket (PARL(P) with PARL(P) students and the variatization lab, "Yes" RR(1, 2, 2) printers, and/or socialization takes more actual table transmission on the law students and the variatization lab. "Yes" RR(1, 2, 2) printers, and/or socialization lab.



#### Showcasing History

The walls of the WALC are rich with reproductions of historic photographs of the Purdue University campus. Artifacts and photographs from the working 1924 Power and Heating Plant can be found throughout the building, memorializing the rich legacy of this central site on the Purdue campus. A smartphone tour enhances the exhibits, by providing information and interactive activities designed to make a visitor's experience an extension of the WALC active-learning philosophy.

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**SP PURDUE** 

| Faculty & Staff Information | Hours |

Collections

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Perkins&Will

# **Veterinary Medical Library**

Purdue University Library Masterplan

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→ Entry

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Pesk

→ Information Desk

**On-site Observations** 

Veterinary Medical Library



Entry Signage

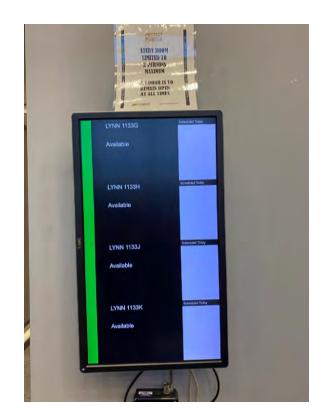


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## **On-site Observations**

Veterinary Medical Library



Digital Signage/Reservation

→

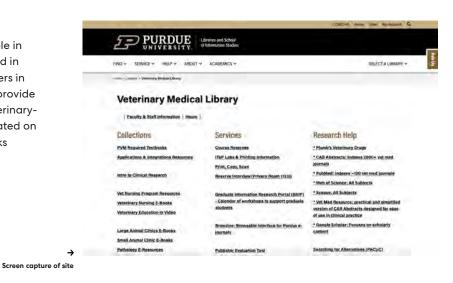
Slide 59 of 95

## **Online Observations**

Veterinary Medical Library

"Designated quiet study space and increased group study is now available in the Veterinary Medical Library located in Lynn Hall (LYNN). Three ITaP computers in the library and wireless connectivity provide access to the Libraries resources. Veterinaryand health-related materials are located on compact shelving located in the stacks room."

https://www.lib.purdue.edu/libraries/vetmed



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**Perkins&Will** 

# Mathematical Sciences Library

Purdue University Library Masterplan

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**On-site Observations** 

Mathematical Sciences Library



←

Entry

**→** 

Information Desk



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## **On-site Observations**

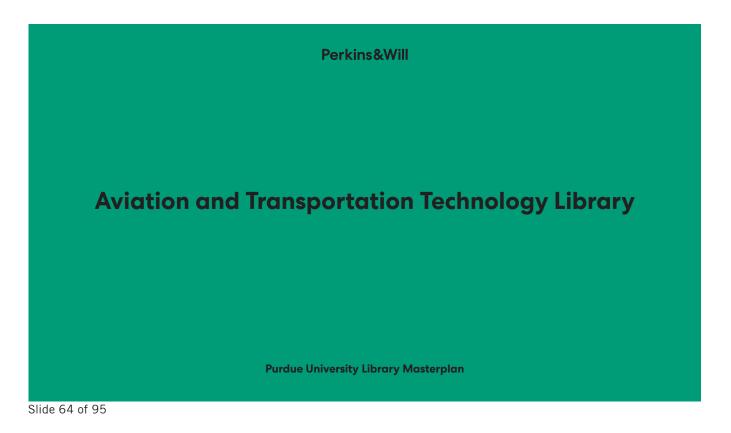
Mathematical Sciences Library

"The Math Library provides collections and services related to Mathematics, Computer Science, and Statistics with space for students and faculty to study, perform research, and collaborate."

https://www.lib.purdue.edu/libraries/math

E PURDUE	Libraines and School of Information Studies	
FIND - STRVICE - HELP - AND	NUT - ACADEMICS -	SELECT ALBERARY ~-
Mathematical Sc	and the second se	
Collections	Services	Research Help
MathSciNet	Course Reserves	Computer Science Library Guide
Zentralbiatt MATH	Recommend a Purchase	Bioinformatics Library Guide
Current Index to Statistica	Print, Copy, Scen	Mathematics Library Guide
ACM Digital Library	Interlibrary Loan	Statistica Library Guide
<b>Online Guide to Computing Lit</b>		
IFFE Explore		
INSPEC/Comparises		
ISTOR		
Lecture Notes in Computer Science		

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65

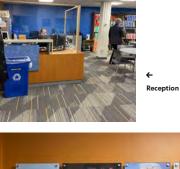
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## **On-site Observations**

Aviation and Transportation Technology Library



**→** Entry Signage





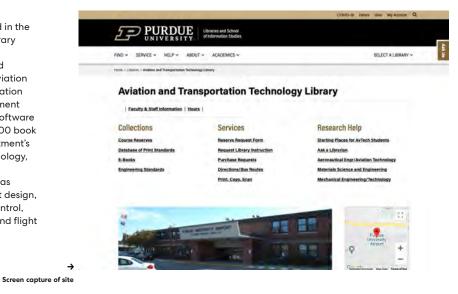
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## **Online Observations**

Aviation and Transportation Technology Library

"The Aviation Technology Library is located in the Purdue University Airport Terminal. The library serves as Purdue's resource for aviation information and supports the teaching and research activities of the Department of Aviation Technology. The Library contains many aviation repair and maintenance manuals, government documents, and instructional videos and software programs. The collection includes over 4,000 book and journal volumes to support the department's programs: Aeronautical Engineering Technology, Aviation Management Technology, and Professional Flight Technology. Subject areas covered by these programs include aircraft design, maintenance, manufacturing, air traffic control, airport management, airline operations, and flight training."

https://www.lib.purdue.edu/libraries/avtech

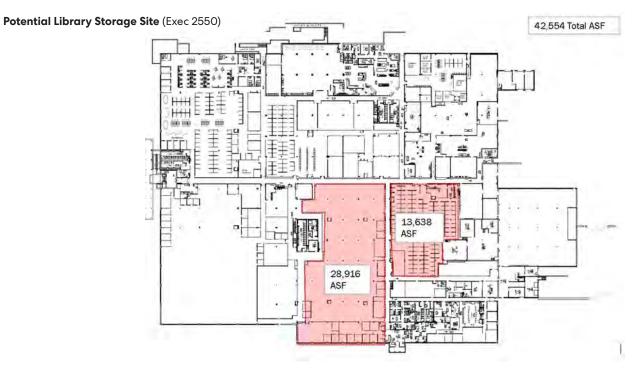


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# **Offsite Repository**

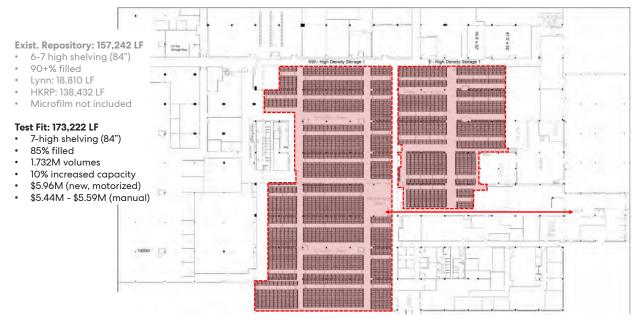
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#### Potential Library Storage Site (Preliminary Test Fit)



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## **Existing Seating Summary**

BUILDING	LEVEL	CARRELL	BENCH	2-TABLE	4-TABLE	6+ TABLE	LOUNGE	HIGH TOP	COMPUTER	4-GRP RM	6+ GRP RM	POTENTIAL	TOTAL
			-									35 SF/SEAT	
STEW	Total	221	0	21	168	136	34	0	90	48	8	223	726
	96	30,44%	0.00%	2,89%	23.14%	18.73%	4.68%	0.00%	12.40%	6.61%	1.10%		
HIKS	G	98		84	100	268	46	40	69	52			757
	%	12.95%	0.00%	11.10%	13,21%	35.40%	6.08%	5.28%	9.11%	6.87%	0.00%		
WALC	Total	.24	9	26	156	170	194.	0	95	4	48		726
	%	3.31%	1.24%	3,58%	21.49%	23.42%	26,72%	0.00%	13.09%	0.55%	6.61%		
KRAN	2	18	7	4	116		23	39	65		24		296
	%	6.08%	2.36%	1.35%	39.19%	0.00%	7.77%	13.18%	21.96%	0.00%	8.11%		
MATH	3.	23			39	12	18		4	12	14		122
	16	18.85%	0.00%	0.00%	31.97%	9.84%	14.75%	0.00%	3.2.8%	9.84%	11.48%		
LYNN	1	28			64		35		3	16			146
	96	19.18%	0.00%	0.00%	43.84%	0.00%	23.97%	0.00%	2.05%	10.96%	0.00%		
TERM	i			2	24		12	9	4		12		63
	96	0.00%	0.00%	3.17%	38.10%	0.00%	19.05%	14.29%	6.35%	0.00%	19.05%		
		CARRELL	BENCH	2-TABLE	4-TABLE	6+ TABLE	LOUNGE	HIGH TOP	COMPUTER	4-GRP RM	6+ GRP RM	-	TUTAL
TOTAL SEATS	5	412.0	16.0	137.0	667.0	586.0	362.0	88.0	330.0	132.0	106.0		2,836
		14.53%	0.56%	4.83%	23.52%	20.66%	12.76%	3.10%	11.64%	4.65%	3.74%		
TOTAL "GOO	DD" SEATS	412.0	12.0	102.8	500.3	410.2	362.0	66.0	330.0	99.0	70.6	-	2,365
-		17.42%	0.51%	4,34%	21,15%	17.35%	15.31%	2.79%	13.95%	4.19%	2.99%		

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#### **Existing Seating Summary**

BUILDING	LEVEL	CARRELL	BENCH	2-TABLE	4-TABLE	6+ TABLE	LOUNGE	HIGHTOP	COMPUTER	4-GRP RM	6+ GRP RM	POTENTIAL 35 SF/SEAT	TOTAL
STEW	Total	221	0	21	168	136	34	0	90	48	8	273	726
	96	30,44%	0.00%	2.89%	23.14%	18.73%	4.68%	0.00%	12.40%	6.61%	1.10%		
HIKS	G	98		84	100	268	46	40	69	52			757
	%	12,95%	0.00%	11.10%	13,21%	35.40%	6.08%	5.28%	9.11%	6.87%	0.00%		
WALC	Total	.24	9	26	156	170	194.	0	95	4	48		726
	96	3.31%	1.24%	3,58%	21.49%	23.42%	26,72%	0.00%	13.09%	0.55%	6.61%		
KRAN	2	18	7	4	116		23	39	65		24		296
	%	6.08%	2.36%	1.35%	39.19%	0.00%	7.77%	13.18%	21.96%	0.00%	8.11%		
MATH	3.	23			39	12	18		4	12	14		122
	N	18.85%	0.00%	0.00%	31.97%	9.84%	14.75%	0.00%	3.28%	9.84%	11.48%		
LYNN	1	28			64		35		3	16			146
	96	19.18%	0.00%	0.00%	43.84%	0.00%	23.97%	0.00%	2.05%	10.96%	0.00%		
TERM	đ			2	24		12	9	4		12		63
	96	0.00%	0.00%	3,17%	38.10%	0.00%	19.05%	14.29%	6.35%	0.00%	19.05%		
		CARRELL	BENCH	2-TABLE	4-TABLE	6+ TABLE	LOUNGE	HIGH TOP	COMPUTER	4-GRP RM	6+ GRP RM		TUTAL
TOTAL SEATS		412.0	16.0	137.0	667.0	586.0	362.0	88.0	330.0	132.0	106.0		2,836
TOTAL "GOOL	SEATE	14.53%	0.56%	4.83%	23.52% 500.3	20.66%	12.76% 362.0	3.10% 66.0	11.64% 330.0	4.65%	3.74%		2,365
IOTAL GOOL	JEA15	17.42%	0.51%	4.34%	21.15%	17.35%	15.31%	2.79%	13.95%	4.19%	2.99%		2,303

rent Enrollment and Current Library Seats: 11% 7% 6% 2021 Perkins&Will Seating Survey 2021 Perkins&Will Seating Survey

2021 Perkins&Will Seating Survey

5,130 With 2,294 Wilmeth Classroom Seats

3,106 With two (2) group study groups per Wilmeth Classroom (10-seats each) 2,836 Without 2,294 Wilmeth Classroom Seats

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## **Enrollment Projections**

- Assumptions: 2031 UG FTE = 38,000 2031 Grad FTE = 8,000
- 2031 Total = 46,000 •

			PROF						
	1.00	UG: FTE	UG FTE	GRAD FTE	TOTAL FTE	GROWTH RATE	3-yr Avg.	4-yr Avg.	5-yr A
E.	Fall 2016	29,434,4	1,439,7	7,269.5	38,143,6				
DUT	Fall 2017	30,330,7	1,412,5	7,319.3	39,062,5	2.41%	2.24%	2,83%	3,6
5	Fall 2018	31,957,4	1,433.8	7,457.0	40,858.1	4.60%			
EA	Fail 2019	32,854.2	1,455.6	7,568.7	41,878.5	2.50%			
2	Fall 2020	33,959.1	1,476.0	7,197.7	42,632.8	1.80%			
	Fall 2021	36,270.9	1,477.5	8,241.9	45,990.3	7.88%			
				(C. C.	2.24%	0.50%	0.0022%	0.00%	
	Fall 2020				42,633	42,633	42,633	42,633	
-	Fall 2021				45,990	45,990	45,990	45,990	
1	Fail 2022			_	47,018	46,220	45,991	45,990	
2	Fall 2023				48,070	46,451	45,992	45,990	
3	Fall 2024				49,144	46,683	45,993	45,990	
4	Fall 2025				50,243	46,917	45,994	45,990	
5	Fall 2026				51,367	47,151	45,995	45,990	
6	Fall 2027				52,515	47,387	45,996	45,990	
1	Fall 2028				53,689	47,624	45,997	45,990	
8	Fall 2029				54,890	47,862	45,998	45,990	
9	Fall 2030				56,117	48,101	45,999	45,990	
10	Fall 2031				57,372	48,342	46,000	45,990	
Ľ	Fall 2032				58,654	48,584	46,001	45,990	
12	Fall 2033				59,966	48,827	46,002	45,990	
13	Fall 2034				61,307	49,071	46,003	45,990	
14	Fall 2035			1.000	62,677	49,316	46,004	45,990	
15	Fall 2036				64,079	49,563	46,005	45,990	
16	Fall 2037				65,511	49,810	46,006	45,990	
17	Fall 2038				66,976	50,059	46,007	45,990	
18	Fall 2039				68,474	50,310	46,008	45,990	
19	Fall 2040				70.005	50,561	46,009	45,990	
20	Fall 2041				71,570	50,814	46,010	45,990	
21	Fall 2042				73,170	51,068	46,011	45,990	
22	Fall 2043				74,806	51,324	46,012	45,990	
23	Fall 2044				76,479	51,580	46,013	45,990	
24	Fall 2045			1.000	78,189	51,838	45,014	45,990	
25	Fall 2046				79,937	52,097	46,015	45,990	

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#### Seating Projection: ACRL Method

CIATION OF COLLEGE RESEARCH L Target 2031 Seats:	IBRARIES METHOD (ACRL 19 % FTE	995) Seats	Delta w/o clrm		
Commuter Campus	10%	4,600	(1,764) @35sf/seat	(61,740)	sf
Low Residential	15%	6,900	(4,064) @35sf/seat	(142,241)	sf
PURDUE	17.5%	8,050	(5,214) @35sf/seat	(182,491)	sf
High Residential	20%	9,200	(6,364) @35sf/seat	(222,741)	sf

PROF

Slide 74 of 95



## Seating Projection: A4LE Method

	)) sf
Low Residential 15% 6,900 (4,064) @35sf/seat (142,2	.) sf
PURDUE 17.5% 8,050 (5,214) @35sf/seat (182,4	l) sf
High Residential 20% 9,200 (6,364) @35sf/seat (222,7	.) sf

User Categories:	%FTE	FTE (2031)	# of Seats		
Undergraduate Students	12%	38,000	4,560		
Graduate Students	30%	8,000	2,400		
Faculty	5%	2,201	110		
			7,070		
				Delta w/o clrm	
				(4,234) @35sf/seat	(148,192) sf

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## Seating Projection: Visitation Based Method

## Max Enrollment 2031

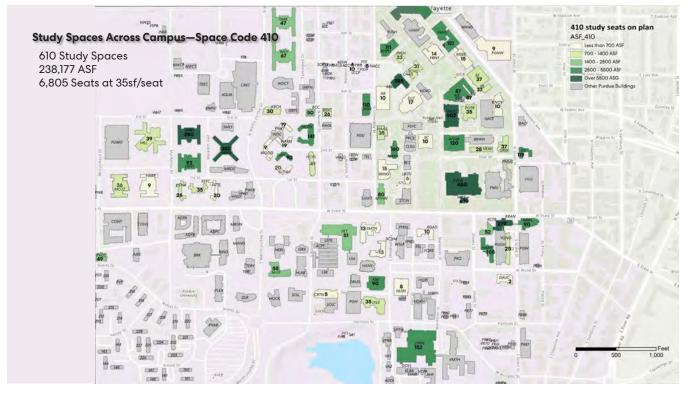
46,000

Institution	StudentFTE	Library Seats	% of students	Gate Counts	Visit/Seat	Visit/Student
Ohio State University	61,391	4,333	7.1%	4,103,455	947	67
North Carolina State University	34,767	5,027	14,5%	2,464,590	490	71
lowa State University	33,391	3,330	10,0%	1,916,666	576	57
University of NC, Chapel Hill	29,877	5,705	19.1%	2,667,100	468	89
Western Michigan State University	21,470	2,551	11.9%	597,958	234	28
Georgia Tech University	19,432	2,360	12.1%	318,614	135	16
Miami University	17,697	1,640	9,3%	382,474	243	72
Average	31/146	3,564	12,0%	1,778,694	440	50
Pandue Filorary (2018-04)	ILE/E	1816	a di	1,473,867	100	-19
Purdue Library (2031)	46,000	5,226	11.4%	2,301,712	440	50
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Delta w/o clrm	- ALLAN		· · ·
			(2,390)	@35kf/Lent	(83,683	) al .
Purdue Library (2031)	46,000		11.4% Deltu w/o cirm	2,301,712		
ASED BENCHMARKING METHOD	(NEW)	Library Seets	% of students	Gate Counts	Visit/Seat	Visit/Studen

				(2,414) @3	Saf/sent	(84,490)	4
			4	Average			
				(2,438) (#3	Sst/war	(85,343)	4
				Delta w/o cirm			
Purdue Library (2031)		46,000	5,274	11.5%	3,270,601	620	71
Pontue Elbrary (Commut)		(2,65)	A 890	0.75	1,473,867	570	19
	Average	39,857	4,599	12.6%	2,787,953	620	71
University of NC, Chapel Hill		29,877	5,705	19,1%	2,667,100	468	169
Iowa State University		33,391	3,330	10.0%	1,916,666	576	57
North Carolina State University		34,767	5,027	14.5%	2,464,590	490	71
Ohio State University		61,391	4,333	7.1%	4,103,455	947	67

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#### **Seating Projection: Visitation Based Method**

x Enrollment 2031				46,	000	
TATION BASED BENCHMARKING METH						
Institution	Student FTE	Library Seats	% of students	Gete Counts	Visit/Seat	Visit/Studen
Ohio State University	61,391	4,333	7.1%	4,103,455	947	67
North Carolina State University	34,767	5,027	14,5%	2,464,590	490	71
lowa State University	33,391	3,330	10,056	1,916,666	576	.57
University of NC, Chapel Hill	29,877	5,705	19.1%	2,667,100	468	K9
Western Michigan State University	.21,470	2,551	11:9%	597,958	.734	28
Georgia Tech University	19,432	2,360	12.1%	318,614	135	10
Adiami Liniversity	17,697	1,640	9,3%	382,474	283	- 22
Aver	age 31/146	3,564	12.0%	1,778,694	440	50
Paulae Lharry (2018-00)	11,876	7.646	how.	1,473,867	120	59.
Purdue Library (2031)	46,000	5,226	11.4%	2,301,712	440	50
			Delte w/o drm		-	
			(2,390) (	EISKE/Aunt	(\$3,653	) al .
TATION BASED BENCHMARKING METH	StudentFTE	Library Seats	% of students	Gate Counts	Visit/Seat	Visit/Stude
Ohio State University	61,391	4,333	7,136	4,103,455	947	67
North Carolina State University	34,767	5,027	14,5%	2,464,590	490	71
Iowa State University	33,391	3,330	10,0%	1,915,666	576	57
University of NC, Chapel Hill	.79,877	5,705	19.1%	2,667,100	468	89
Aver	age 39,857	4,599	12.6%	2,787,953	620	71
Pondus ( image (coroms)	- 4 - 304 3	< 100H0	0.000	1.473,867	990	
Purdue Library (2031)	46,000	5,274	11.5%	3,270,601	620	71
			Delta w/o drm	100 P		
				#35)//iem	(15,343	): s1
		10	Average (2,414)	235 J/Lenx	(84, 498	a d
TATION BASED BENCHMARKING METH	DD (NEW)			1		1
Method Exist. Se	The second s	SF Add	Non-Lib	rery Study Seats	Total Seats	% FTE
ACRL 2,8		182,491				
	36 4,234	148,192				
A4LE 2,8 Visitation Benchmark 2,8		84,498		1.965		.20

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**Area Allocations** 

URPARY	RAIRDING	LEVEL	cousenews	SEATING	STAP?	DLASSICION	SNEC PROG	SUCTOTAL	CIRC/INFRA	TOTAL.
Humanities, Social Sciences, and Education (HSSE)	STEW	1	9,430	4,390	7,430	2,765	1,650	25,865	7,690	33,535
		2	16,925	2,045.	11,465			31,035	6,495	37,530
			12(135	2,300	7.130	470		23,485	11,745	33,750
Arthives/Siter, C	Satt.	4	0	3,693	0	0		7,090	ő	0,090,0
		Total	38,490	12,725	25,725	3,683	1,850	82,475	25,430	107,903
		56	47%	15%	31%	4%	2%	100%	24%	100%
Undergraduate Library	HIKS	8	the state of the s					0	1,130	1,130
		G	510	17,260	2,960	4,115		24,845	8,175	33,020
		1		_	_				1,525	1,515
		Total	510	17,260	2,960		0	24,845	10,820	35,665
		*	2%	69%	12%	17%	0%	100%	30%	100%
Library of Engineering Sciences (LOES)	WALE	8		2,750				2,750	and the second sec	2,750
		1		3,765	85			3,850		3,850
		2	1,955	10,555	9,500	470		15,460	1,275	17,785
		8		2,635	6,545		1,900	11,080	35	11,115
		Total	1,955	19,705	10,1.30	470	1,900	34,160	1,310	35,470
		- 16	E%	58%	30%	1%	6%	100%	4%	100%
Parish Ubrary	KRAN	2	755	7,720	1,020	1,620	255	11,370	2,750	14,120
		%	7%	68%	9%	14%	28 /	100%	19%	100%
Mathematical Sciences Library	MATH	з	1,415	3,410	1,045			5,870	2,050	7,920
		- 8	28%	58%	18%	0%	0%	100%	26%	100%
Veterimary Medicine Ubrary	LYNN	8	1.000					0	A DESCRIPTION OF	0
and the second se		1	1,550	3,890	1,705			7,175	1,610	6,785
		Total	1,580	3,890	1,705	0	0	7,175	1,610	8,785
		8.	22%	54%	24%	0%	0%	100%	18%	100%
Aviation and Transportation Technology Ubrary	TERM	8	115	735	215	380		1,445	850	2,295
		- 95	8%	51%	15%	26%	0%	100%	87%	100%
PURDUE LIBRARIES					_				-	
TOTAL (w/o Republicity or A/SC)			44,820	65,445	42,500	10,270	4,005	167,340	44,8 20	212,160
FERCENTAGE	_		26.8%	39.1%	25.6%	6.1%	2.4%	100.0%	21.1%	100.6%
Additional Reposition	HIKS	B	33,700		610			34,310		34,310
and the second se	LYNN	8	9,065		425			9,490		9,490
	RAWL	B	8,705					8,705		B, 705
		Total	46,470		1,035			47,505		47,505

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**Area Allocations** 

	COLLECTIONS	SEATING	STAFF	CLASSROOM	SPEC. PROG.	SUBTOTAL
AVERAGE	25%	50%	15%	5%	5%	100%
PURDUE	26.8%	39.1%	25.6%	6.1%	2.4%	100%
DELTA	-1.8%	10.9%	-10.6%	-1.1%	2.6%	

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#### **Area Allocations**

	COLLECTIONS	SEATING	STAFF	CLASSROOM	SPEC. PROG.	SUBTOTAL
AVERAGE	25%	50%	15%	5%	5%	100%
PURDUE	26.8%	39.1%	25.6%	6.1%	2.4%	100%
DELTA	-1.8%	10.9%	-10.6%	-1.1%	2.6%	

WITH AREA ADJU STMENTS	COLLECTIONS	SEATING	STAFF	CLASSROOM	SPEC. PROG.	SUBTOTAL
EXISTING PURDUE LIBRARY BY GENERAL USE ZONE IMPROVED EFFICIENCIES	44,820	65,445 15,000	42,800	10,270	4,005	167,340
ADDITIONAL AREAS	1	55,000		5,000	9,498	84,498
SUBTOTAL	44,820	135,445	42,800	15,270	13,503	251,838
PURDUE	17.8%	53.8%	17.0%	6.1%	5.4%	

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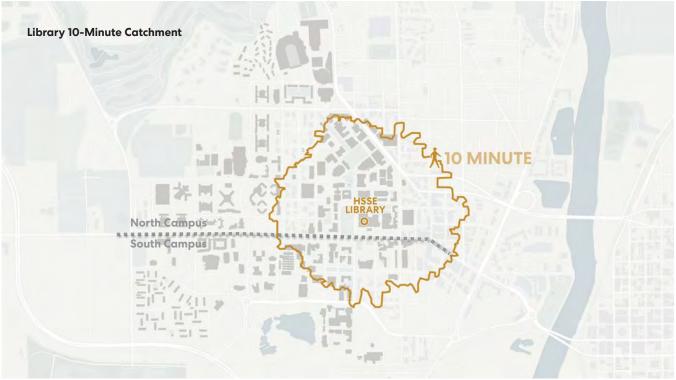
# **Library Footprint**

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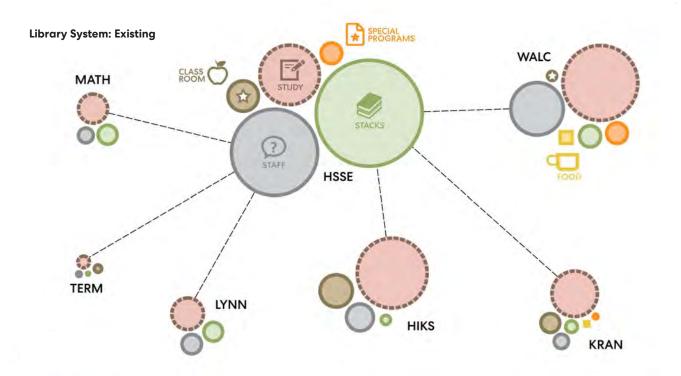


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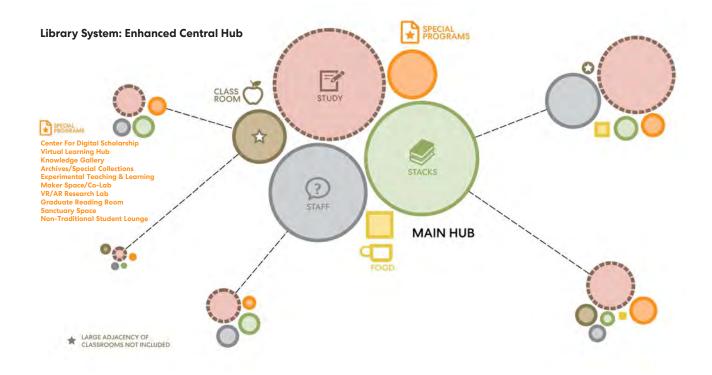


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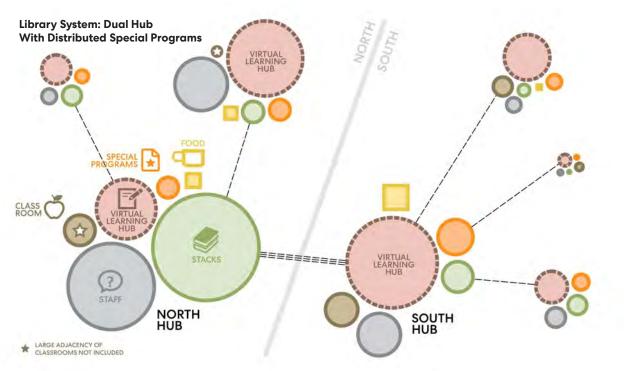


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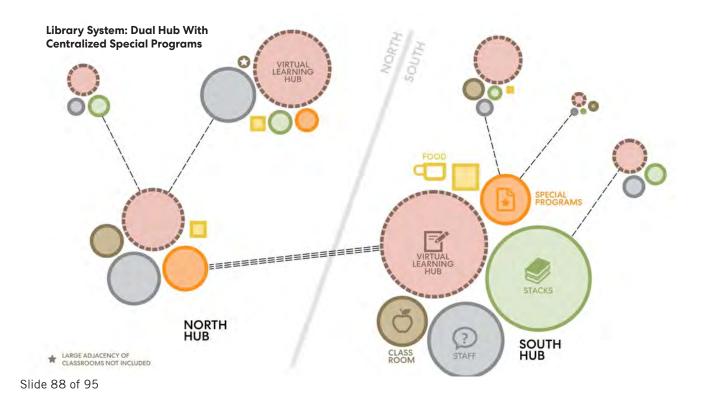


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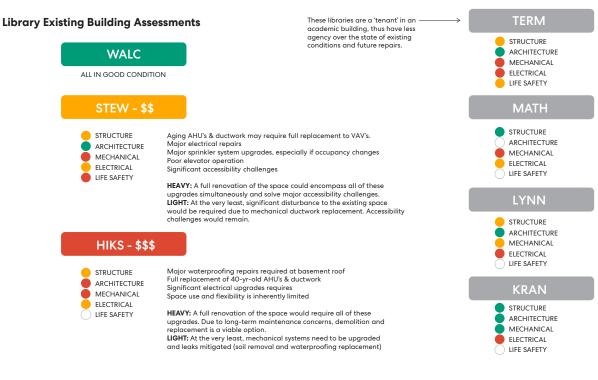
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# EXISTING LIBRARY BUILDING CONDITIONS SUMMARY

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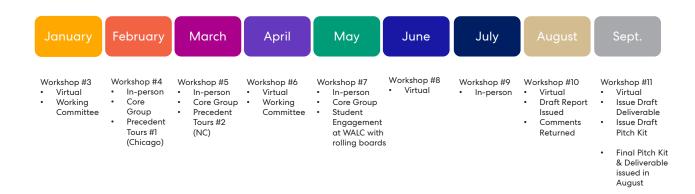
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# **NEXT STEPS**

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#### Schedule



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## Workshop #4 Agenda

Monday, 1/24 - evening, arrive in Chicago

Tuesday, 1/25 Tours:

University of Chicago 21C Hotel Virgin Hotel Corporate HQ or Museum

Wednesday, 1/26 Tours:

Shirley Ryan Agility Lab Northwestern University RWAC Northwestern University "Garage"

Workshop #4 Recap of Precedent Tours Summary: Student Findings Viciosian and Dam

Visioning and Brand Findings Revision Vision Statement Space Utilization Preliminary Insights Technology Trends Presentation – NV5

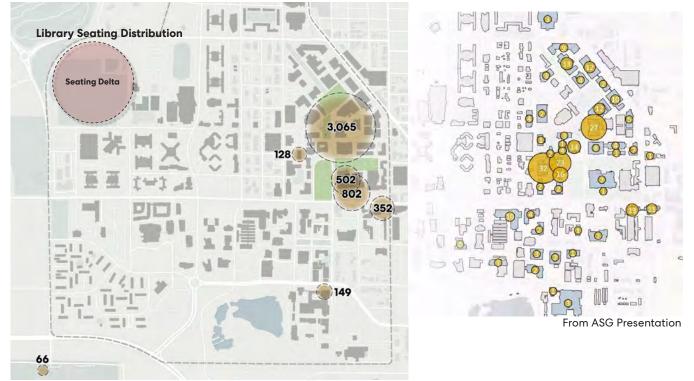
Purdue Library Core Group Culture Activity Homework Example



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## Workshop 4: February 22, 2022

max out capacity.

impacting archives.

6.

7.

#### **Meeting Details**

Meeting Date:	2.22.2022	Project Name:	Purdue University Libraries Master Ple	
Meeting Time:	2:00 PM	Project Number:	021661.000	
Meeting Location:	PW Chicago Studio and Via Teams	Attendees:	Jessica Figenholtz, Derek Jones, S Lenz, Joe Bocchiaro, Gill, Amando Robin, Dean, Mark, Rebecca, Beth	
Discussion				
ITEM NO.	DESCRIPTION			RESPONSIBILITY Perkins + Will
001	Workshop #4 1. Program Priorities: Knowledge digital scholarship.	reikins + Will		
	<ol><li>Team 1: Keep north as workho unites in north hub; If students</li></ol>			

3. Team 2: Want LGBTQ more central to campus; Want virtual learning hubs in both spaces, split into two; Keep A/SC with knowledge gallery without

 Team 3: Maker space and digital scholarship could be built in WALC; Want new A/SC room for storage, knowledge gallery, study spaces.
 Technology: AV is everywhere; Know where tolerance is for change; what

is data input/throughput; Lighting for cameras is key; 6 C's.

touchdown pods; Metaverse, crave community as humans.

**Please note:** The foregoing constitutes our understanding of matters discussed and conclusions reached. Other participants are requested to review these items and advise the originator in writing of any errors or omissions.

Gaming is growing; Esports, sandbox spaces; pods are good examples of

Virtual reality research, studio where we can create that environment.



## PRESENTATION SLIDES



Purdue University Library Master Plan Core Group Workshop#4 2/22/2022

Perkins&Will

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## Agenda

#### Introductions & Overview

Summary of Workshop #3 Brand Workshop Summary Audience Hierarchy Priority Programs

#### **Other Updates**

Summarize Student Intercepts Draft Project Vision Occuspace Status and Preliminary Findings

#### **Program Allocation**

Geographic Distribution of Library Services Space Program Mapping – Virtual Activity

Break

#### Technology Workshop

Wrap Up & Next Steps

Photo from Workshop #2

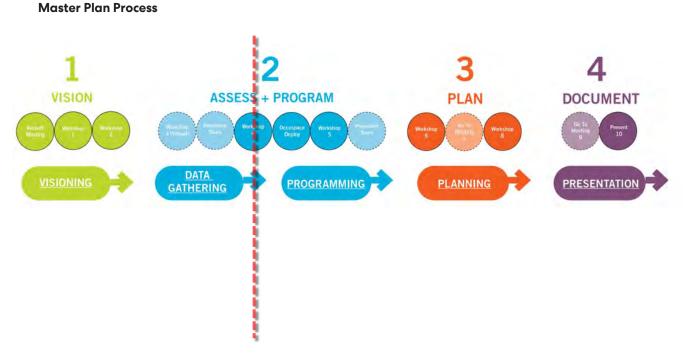


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# **Project Status Updates**

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# **Engagement Summary**

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# **Visioning Workshop#1 Summary**

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**Purdue Library Culture: Past & Future Past Culture Future Culture Inclusive Co-Creation** Welcoming Siloed Interconnected Together Alone Hidden **Campus Gateway Temporarily Connected Permanently Bonded** Streamlined Interoperability **Tenuous Patchwork** Proactive Reactive Juggling Anticipate **Tool User Tool Maker** 

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Visual Listening Recap: Common Themes

FormalCasualDaylightOpen 8Interconnected"StairiteCollaborativeChoiceNatural MaterialsOutdooPresence of BooksMore T

Casual Open & Airy "Stairitorium" Choice Outdoor Connection More Than Books

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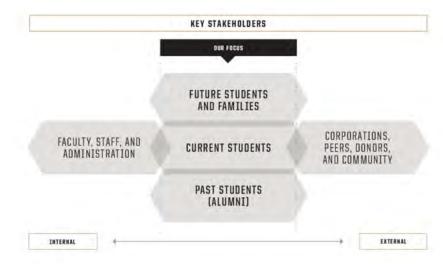


# **Audiences**

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## Audience Types - Purdue University

Our Brand is built around five (5) key stakeholder groups that shape the experience we create.



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## Audience Types

All Students	Visitors & Visiting Scholars
All Faculty	Prospective Students
Staff	Academic Community
Public Community Members	Researchers
Alumni	Student Families
Donors	EDI   BIPOC   LGBTQ
Retirees	Creative Thinkers
Global "Citizens" & Students	Needs-Based Users
On-Line Participants	Users of Study Spaces
Event Attendees	All Abilities, Ages, Cultures, Languages

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## **Brand Recap**

#### Today

Future

Welcoming service organization. Equitable access to information & resources. Teach crucial information skills. Furthering the field of Information Science through research. Distributed "hodge-podge" of resources & services. We have study spaces; WE ARE MORE THAN BOOKS. Striving to be better understood by all. Nice. Helpful. Friendly. Welcoming. Willing and Ready to Assist. Open to new ideas. Serve the information needs of the Purdue community. An Information Service Hub for Purdue...so much more than books! Cohesive. Complementary. Inclusive. Discover. Create. Grow. Innovate. Let us inspire you. Advancing leadership and the profession through critical research. Portfolio of resources, experiences and experimentation for all. Dynamic multi-space environment with great resources. Responsive services and staff at the academic forefront. Expert level instruction and personalized guidance.

Connected within our organization, the university, the community, and the world.

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# **Story-Telling**

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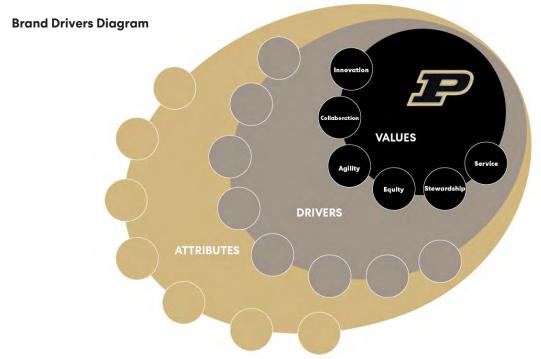
### **Stories**

Our History | Our Archives | Our Collections A Place for Knowledge Creation Authentic Source of Information Patents, Firsts, Innovations at Purdue Your Experience Begins at Purdue Libraries Research & Explore Study, Learn, Collaborate, Innovate, Celebrate Physical Places & Spaces Information Literacy Library Locations & Specializations Our Services, Resources & Tools...More than Books! Personal-Touch Assistance...Let Us Help You! At Purdue, it's Cool to be Smart The Digital Experience We are ONE Library System Our Expanded Network Our Rich Database Vital Partnerships

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## Area Discrepancies

TERM WALC	2196 33954	2,295 35,470	4.5% 4.5%
TERM	2196	2,295	4.5%
STEW	127796	125,505	-1.8%
MATH	7774	7,920	1.9%
KRAN	14127	14,120	0.0%
HIKS	71607	69,975	-2.3%
RAWL	3617	3,705	2.4%
LYNN	17913	18,275	2.0%
	Purdue	PW Measure	Variance
	RAWL HIKS	LYNN 17913 RAWL 3617 HIKS 71607	LYNN 17913 18,275 RAWL 3617 3,705 HIKS 71607 69,975

## Perkins&Will

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# **Priority Programs**

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**Priority Programs** 

## THE BEST PLACE FOR ...

## KNOWLEDGE GALLERY

Showcase what others are doing Exhibit new scholarship SC/A display New & noteworthy <u>collections</u>

## VIRTURAL LEARNING HUB

Individual seating for online learning Group seating for online learning Tools & resources for virtual learning

## CENTER FOR DIGITAL SCHOLARSHIP

Digital Humanities/Scholarship E-Archives / E-Pub Digitization One Button/Lightboard/Recording Data/GIS Walk-In Services

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**Priority Programs** 

## THE BEST PLACE FOR ...

#### KNOWLEDGE GALLERY

Showcase what others are doing Exhibit new scholarship SC/A display New & noteworthy collections

#### **LEARNING HUB** Individual seating for online learning Group seating for online learning Tools & resources for virtual learning

VIRTUAL

#### CENTER FOR DIGITAL SCHOLARSHIP

Digital Humanities/Scholarship E-Archives / E-Pub Digitization One Button/Lightboard/Recording Data/GIS Walk-In Services

COLLECTION Based Programs	SC/A Engagement	SANCTUARY SPACE Outdoor Area	EXPERIMENTAL TEACHING & LEARNING CTR	ROBUST MAKERSPACE	AR/VR RESEARCH
	NON-TRADITIONAL STUDENT LOUNGE	CAFÉ/FOOD Service Interactive Learning Zone	STUDENT REST/NAP ROOM MORE EMBEDDED COLLAB. CLASSROOMS	STAFF/FACULTY LOUNGE QUIET STUDY ZONE	GRADUATE Study Room More Study Rooms

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# **Project Vision**

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# PURDUE UNIVERSITY BRAND

Purdue University is about the **persistent pursuit of innovation** where people bring their best and learn to build a better world together.

## Or more simply:

Persistent Innovation. Together.

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# **DRAFT PROJECT VISION STATEMENT**

#### **SERVICE DRIVERS**

1. Welcoming to all

- 2. THE HUB for knowledge and scholarship sharing
- 3. THE integrated Center for Digital Scholarship
- 4. Host spaces for virtual and experimental learning
- 5. Seamlessly part of the "total" Purdue student experience
- 6. Resource-rich place to connect and collaborate
- 7. Promote trans-disciplinary research and learning
- 8. Unified alignment of purpose
- 9. Be more visible

#### SPATIAL ATTRIBUTES

- 1. Visible, intuitive, accessible, inclusive: validate lived experiences
- 2. Showcase creation, scholarship, institutional legacy, and special collections
- 3. Make technology and resources seamlessly present
- 4. Integrate virtual learning seats and experimental teaching lab
- 5. Integrate brand across physical and digital spaces
- 6. Blur boundaries between formal learning and social learning
- 7. Support learning across academic and co-curricular spaces
- 8. Co-locate staff with serendipitous collaboration spaces
- 9. Consistent brand expression and physical transparency

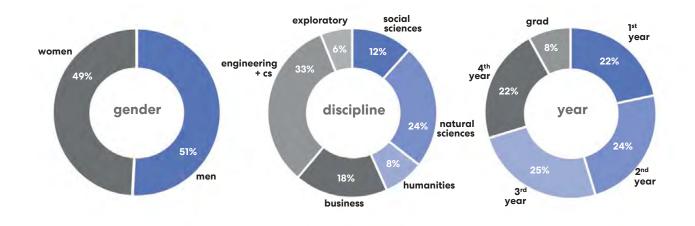
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# **Other Updates**

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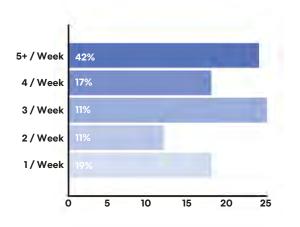
#### **Student Intercept Interviews**



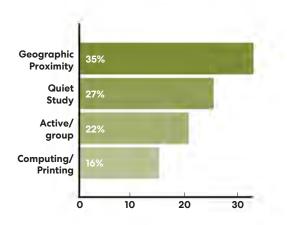
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#### **Student Intercept Interviews**

#### Utilization



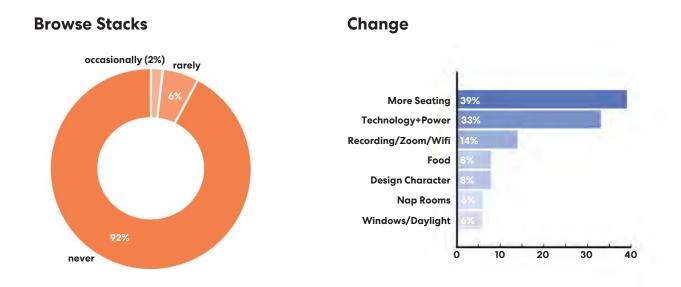
#### **Primary Use Drivers**



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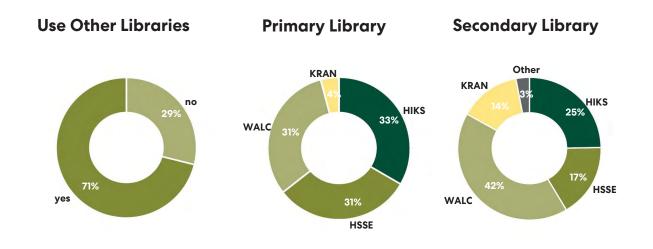


#### **Student Intercept Interviews**



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#### **Student Intercept Interviews**



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#### Student Workshop: KEEP | TOSS | CREATE



TOSS: POOR INTERIOR FINISHES HARD, STODGY CHAIRS

LIBRARY-ALWAYS QUIET FORMALITY FACED WITH LIBRARIAN AT ENTRY UNIVERSITY DINING IS TOO FAR

#### CREATE:

NATURAL LIGHT CLEAR & OPEN WAYFINDING CONFERENCE STYLE STUDY TIERED SEATING PRIVATE & ERGONOMIC

WRITABLE SURFACES MOVEABLE WHITEBOARDS ADJUSTABLE FURNITURE FURNITURE THAT MAKES YOU MOVE COWORKING ADEQUATE POWER INTERDISCIPLINARY COLLABORATION

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#### **Sensor Technology**

#### Spaces measured (24 zones):

- HSSE Level 1, 2, 3
- HIKS Level G
- WALC Level B, 1, 2, 3
- MATH Level 3
- KRAN Level 2
- LYNN Level 1
- TERM Level 1



Feb 06-13 first full week of collection



128 collections 16 times a day for 8 days

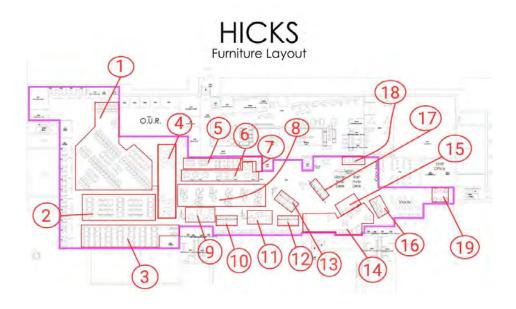


Installation & calibration between Jan 24 - 31. Sensors not fully online between Feb 02-05.

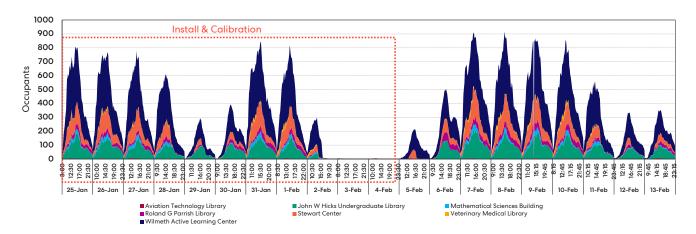
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#### **Occuspace Calibration Process**



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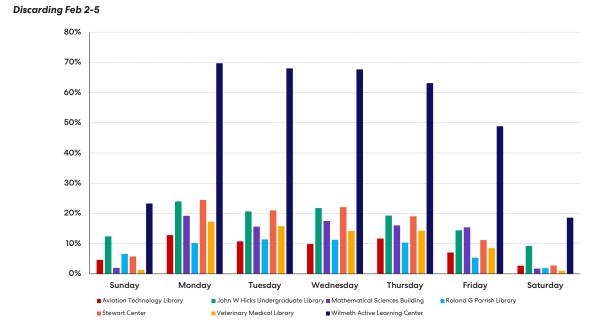


#### Data Received - usage over time

15-min increments

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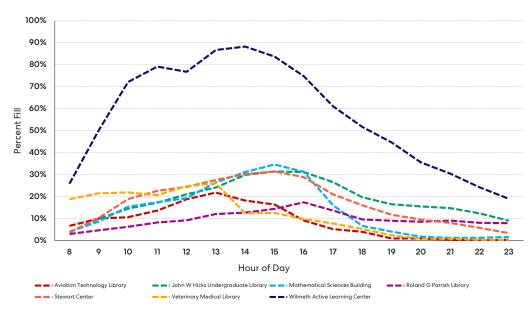




#### Data Received - average daily fill

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#### Data Received - average hourly fill (8am-8pm)



Monday-Friday, discarding Feb. 2-5

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#### **Library Overview**

Actual & Experienced Capacity	668	576
Busiest Day of Week	т	72%
Busiest Morning (8:00-12:00)	М	65%
Busiest Afternoon (13:00-19:00)	т	83%
Busiest Evening (20:00-24:00)	М	41%

Actual & Experienced Capacity	34	30
Busiest Day of Week	M	16%
Busiest Morning (8:00-12:00)	M,T	13%
Busiest Afternoon (13:00-19:00)	М	19%
Busiest Evening (20:00-24:00)	М	2%
Average Daily Occupancy (M-F)	10	%

Utilization reflects data collected during 02.06.2022 - 02.13.2022 (first full week of collection)

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#### **Library Overview**

Actual & Experienced Capacity	707	525
Busiest Day of Week	M	27%
Busiest Morning (8:00-12:00)	М	18%
Busiest Afternoon (13:00-19:00)	М	34%
Busiest Evening (20:00-24:00)	M,W	18%

Actual & Experienced Capacity	141	120
Busiest Day of Week	М	21%
Busiest Morning (8:00-12:00)	т	14%
Busiest Afternoon (13:00-19:00)	М	30%
Busiest Evening (20:00-24:00)	T,R	2%

Utilization reflects data collected during 02.06.2022 - 02.13.2022 (first full week of collection)

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#### **Library Overview**

Actual & Experienced Capacity	303	259
Busiest Day of Week	т	17%
Busiest Morning (8:00-12:00)	т	12%
Busiest Afternoon (13:00-19:00)	т	22%
Busiest Evening (20:00-24:00)	М	19%
Average Daily Occupancy (M-F)	13	%

Stewart Cen	ter	
Actual & Experienced Capacity	562	499
Busiest Day of Week	M	27%
Busiest Morning (8:00-12:00)	М	20%
Busiest Afternoon (13:00-19:00)	М	33%
Busiest Evening (20:00-24:00)	т	11%
Average Daily Occupancy (M-F)	21	%

Utilization reflects data collected during 02.06.2022 - 02.13.2022 (first full week of collection)

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#### **Library Overview**

		1
Actual & Experienced Capacity	138	122
Busiest Day of Week	R	20%
Busiest Morning (8:00-12:00)	т	32%
Busiest Afternoon (13:00-19:00)	R	20%
Busiest Evening (20:00-24:00)	Т	3%
Average Daily Occupancy (M-F)	17	'%

Actual & Experienced Capacity	2,131	2,553
Busiest Day of Week	М	44%
Busiest Morning (8:00-12:00)	М	40%
Busiest Afternoon (13:00-19:00)	M,T	50%
Busiest Evening (20:00-24:00)	М	24%

Utilization reflects data collected during 02.06.2022 - 02.13.2022 (first full week of collection)

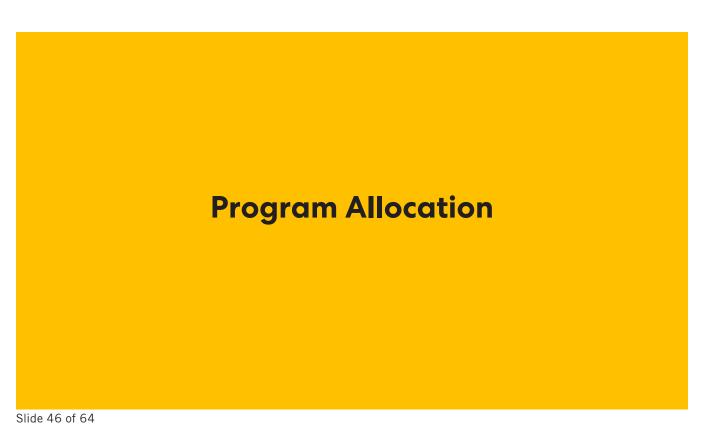
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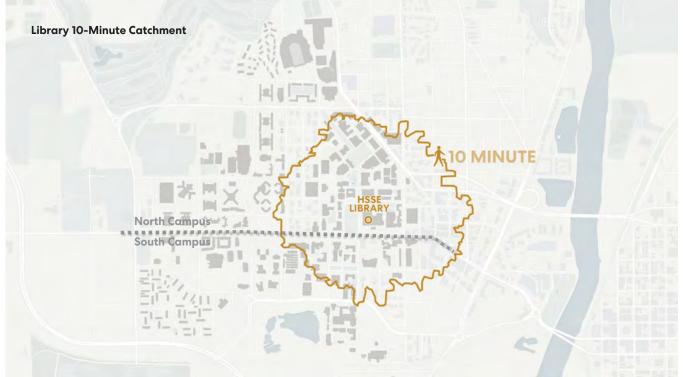
#### **Next Steps**



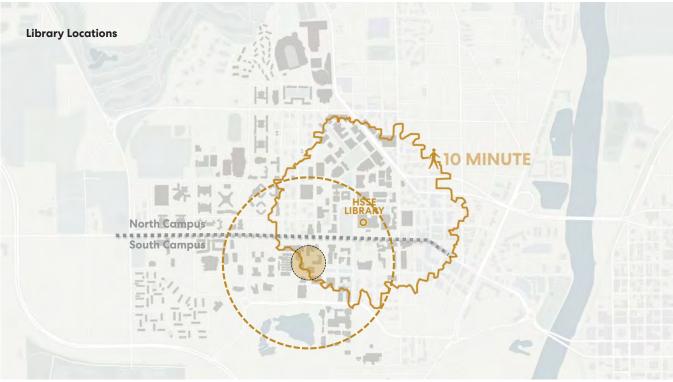
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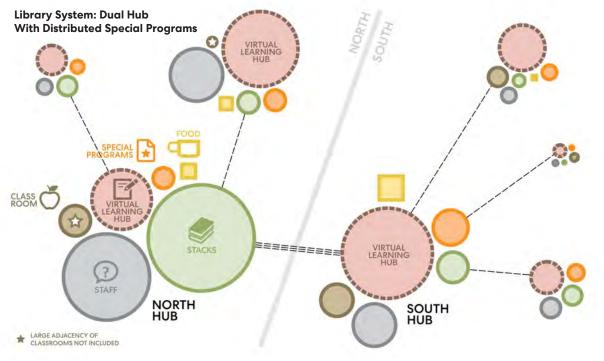


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#### **Program Elements – Access Services**



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#### **Program Elements – Learning Commons**



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#### **Program Elements – Collections**



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#### **Program Elements – Special Collections**



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#### **Program Elements – Seating + Collaboration**



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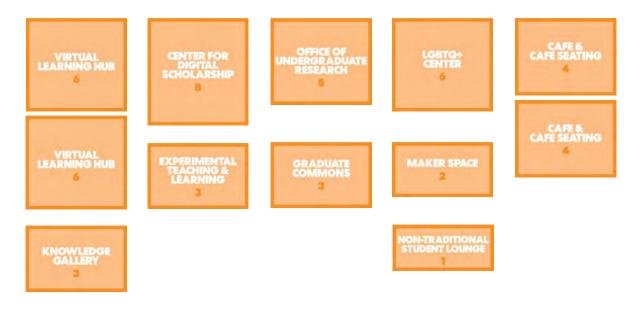


#### **Program Elements – Operations**



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#### **Program Elements – Special Programs**



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	(1) TEAM BOILERS		
Т		A REAL PROPERTY.	
D.	TEAM BOILERS - FINAL PROGRAM DISTRIBUTION		
ድ /	SOUTH HUB (NEW)	NORTH HUB (HSSE) 150 UNITS MAXIMUM	
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#### Miro Board Tutorial https://miro.com/app/board/uXjVOLgAnj4=/

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#### Miro Board Tutorial https://miro.com/app/board/uXjVOLgAnj4=/



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#### **Breakout Session**

Housekeeping: TIMEKEEPER SPOKESPERSON 10 Minute Brainstorm: ALLOCATE PROGRAM TO N-S HUBS NORTH HUB: 150 UNITS MAX SOUTH HUB: 190 UNITS MAX

Report Out: WHAT WENT WHERE WHY CRITICAL RELATIONSHIPS

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# **Technology Visioning**

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**Technology Visioning** 

SEE TECHNOLOGY VISION SEE TECHNOLOGY NISION SUMMARY IN APPENDIX

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# Wrap-Up

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#### Schedule

February	March	April	Мау	June	July	August	Sept.
Workshop #4 (in person)	Workshop #5 (virtual)	Workshop #7 (in person)	Workshop #8 (in person)	Workshop #9 (virtual)	Workshop #10 (virtual)	Revised Report Issued	lssue Final Report and Final Pitch Kit
Precedent Tours	Workshop #6 (virtual)	University Library Committee Mtng		Occuspace – finish data collection	Draft Report Issued	Draft Pitch Kit Issued	
		Executive Committee Mtng			Executive Committee Mtng		
		Student Engagement Session					

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### Workshop 5: March 11, 2022

#### **Meeting Details**

Meeting Date:	3.11.2022	Project Name:	Purdue University Lib	raries Master Plan
Meeting Time:	9:00 AM	Project Number:	021661.000	
Meeting Location:	Via Teams	Attendees:	Jessica Figenholtz, D Rebecca, Eileen, Mar Furry, Allison	
Discussion				
ITEM NO.	DESCRIPTION			RESPONSIBILITY
001	<ul> <li>Workshop #5 <ol> <li>Precedent Tours: UC – Beth Virgin – Purdue specific art Wavespace–Do we have to Garage – Classroom flexible have framery visible.</li> <li>Have we PW made a case? footprint needed.</li> <li>Scenarios: Stay &amp; Renovate Reduce &amp; Stay: This is a 'Sac Reduce &amp; Grow New: Conce undesirable), PW can make</li> <li>HSSE Transformation: Looks discussions as we get into sp 5. Next Steps: Get to Flo's slide scenarios and evaluation m</li> </ol> Action Item: share HSSE slides so we existing SF to proposed SF by FICM Facilities Standards.</li></ul>	throughout, think of ind o many wrong chairs, C e and small, high-tech n The future of HIKS is a c : Could be phase 1 scene d' scenario to lose seatin ern about staff moving t it a better space in rene s great, want to include batial use es, get to precedent tour atrix on next call; Get to e can review offline; Ali	ividual's experience; E lassroom intercepts; maker space, nice to ritical thing; Big g overall; o 4 <sup>th</sup> (Dark and ovation. Michael in future rs; Get feedback on o virtual hub study. <b>son - compare</b>	

**Please note:** The foregoing constitutes our understanding of matters discussed and conclusions reached. Other participants are requested to review these items and advise the originator in writing of any errors or omissions.



#### PRESENTATION SLIDES



Purdue University Library Master Plan Workshop #5 3/11/2022

Perkins&Will

Slide 1 of 75

#### Agenda

#### Introductions & Overview

Summary of Workshop #4 Precedent Tour Recap **Program Activity Results** 

**Scenario Options & Evaluation Criteria** High Level Look at HSSE Library Footprint Scenarios **Evaluation Criteria Matrix** 

#### **Draft Tabulated Program**

#### Next Steps

Office Storage Systems Virtual Learning Hub Prototype Additional Precedent Tours

Wrap Up



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# **Project Status Updates**

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#### Master Plan Process



Slide 4 of 75



# Workshop #4 Recap

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**Precedent Tour Recap** 

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#### **University of Chicago**



Regenstein Library, Lower Level

> → Regenstein Library, First Floor



First Floor Café Space Tech Bar Studio Writable Surfaces Team Rooms One Button Studio Ample Power & WiFi Pop-Up Exhibits to showcase artifacts Self-checkout modifies staffing need

Slide 7 of 75

#### University of Chicago

Partnership with arts, humanities and library Provide spaces for no tech to high tech engagement Brand and signage part of Crerar experience Library owned space Café at entry Variety of spaces and seating choices







Slide 8 of 75



#### Virgin Hotel

"read-easy"



Virgin Hotel Mural Created by Local Artist

> Frivolity and fun, cater to female business traveler Uses technology to support service and experience – everything is high tech "don't nickel and dime customers" Think creatively about every inch of space and how it is used and could be used differently Consistent message of brand throughout

Use of art to enhance story

-

→ Virgin Hotel Conference Room



4

Slide 9 of 75



Space divided by behavior Hospitality focus (from food, coat rooms to break out spaces) Interactive white boards throughout, moveable Camera can recognize emotion Tech support high Furniture with high backs is desired Unassigned seating, check in at front desk or on app Desks are height adjustable Maker space – meant to be messy Reservation system for all conference rooms

**EY Wavespace** 

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10



#### EY Wavespace



Slide 11 of 75

÷ Use of furniture to create stacked viewed

Small group room







Brand reinforced through design and sponsorship Strong beverage and food component Central hub Zoom Suite Phone Rooms



**Aspen Dental** 

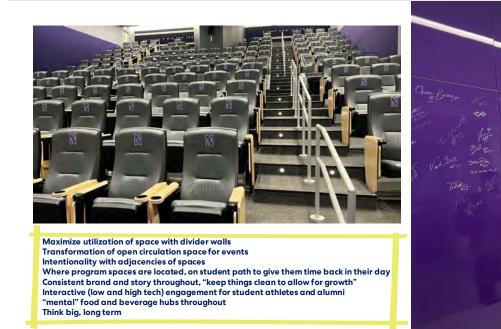
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12

11



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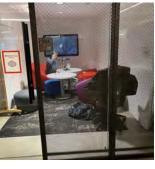


Northwestern University



Northwestern University The Garage





Entrepreneurial space, interdisciplinary Not associated with any schools Dry erase on tables and walls Modular furniture to create a 'zone' Students like backs to walls Soften up the space AR/VR media Left brain / right brain conf rooms Self-guided space Pods with mix of furniture creates safe zone Peer to peer is most effective

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Slide 13 of 75



#### Northwestern University Library

Balance need of students and public Reservable study spaces and quiet space Renovating portions when possible Could be better about advertising spaces and programming

Computer Stations





**Renovated Study Space** 

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15



## **PURDUE UNIVERSITY** UNIVERSITY MISSION STATEMENT

Our mission is to help Purdue University students **maximize the value of their life experiences**. As we **develop collaborative relationships** in a safe and respectful environment, the **unique value of dignity of each individual** and group is held paramount.

#### LIBRARY MISSION STATEMENT

We lead in research, teaching, and learning, and create and provide **equitable access** to diverse resources, outstanding services, and **innovative spaces**, for Purdue's **local**, **national, and international communities** 

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# **PROJECT VISION STATEMENT**

The future Purdue Libraries will be the **bridge between individual** scholars and the academic community, the campus and the world. It will connect disciplines and integrate resources across the university so all can engage in the richness of the Purdue experience. The Libraries will be a consistently recognized partner for experimentation, collaboration, and digital learning. It will be a pathway between knowledge acquisition and its application in the service of society.

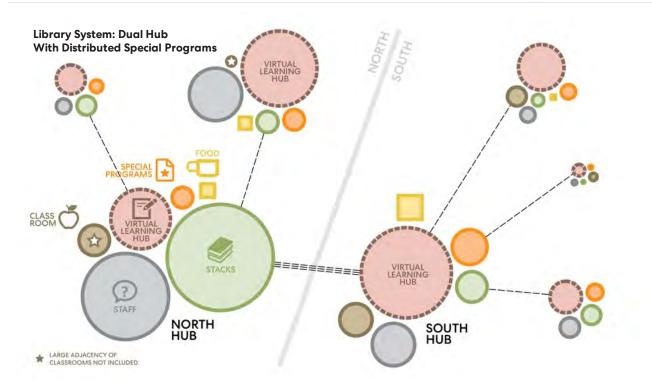
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## **PROGRAM DRIVERS**

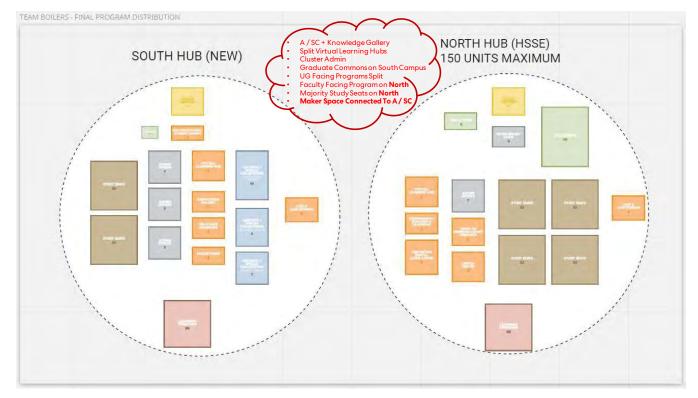
Support the Persistent Pursuit of Innovation Virtual Learning Hub Center for Digital Scholarship Knowledge Gallery Expanded Archives & Special Collections Improved Seating Quantity & Quality Collaboration / Collocated Staff Support South Campus Development Visible. Accessible. Welcoming To All.

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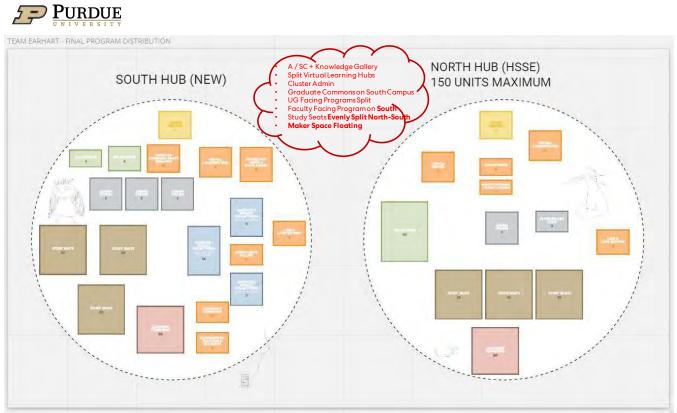




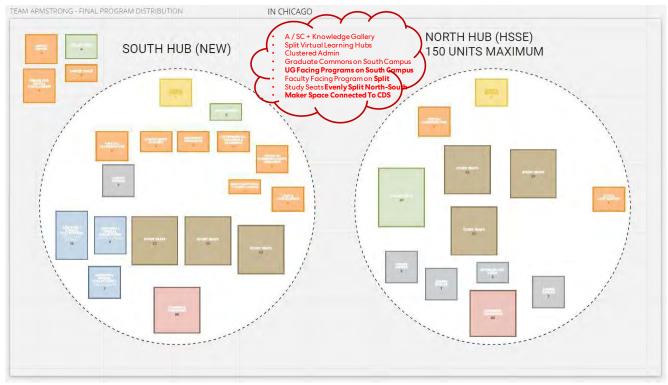
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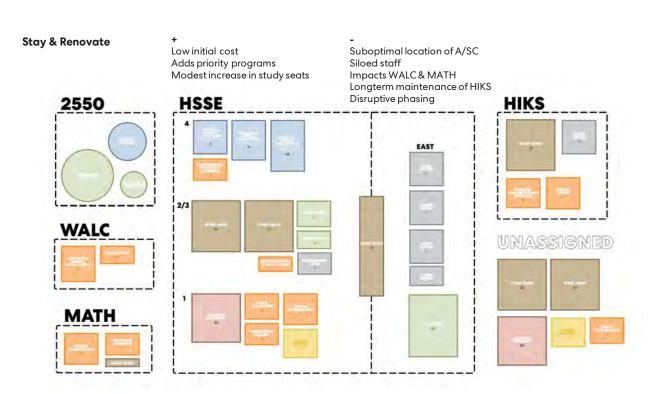


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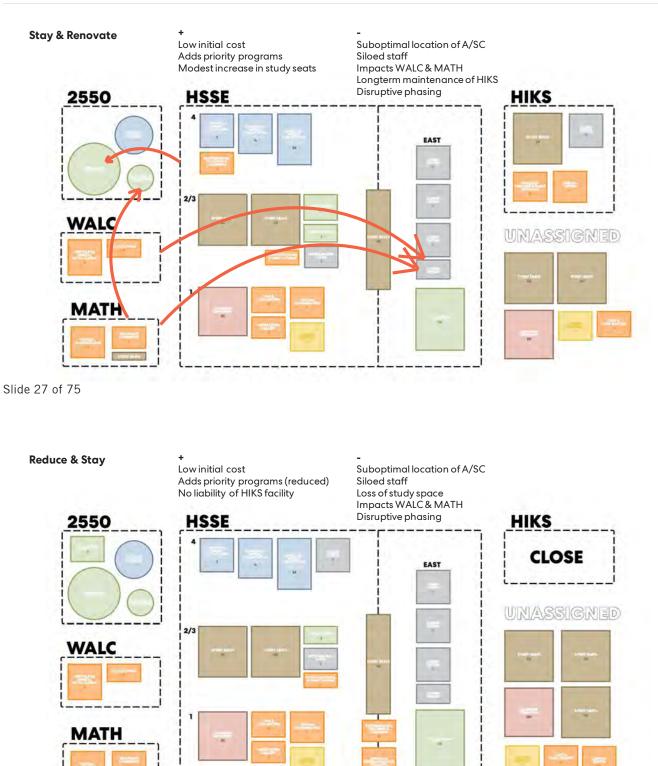
# Scenario Options & Evaluation Criteria

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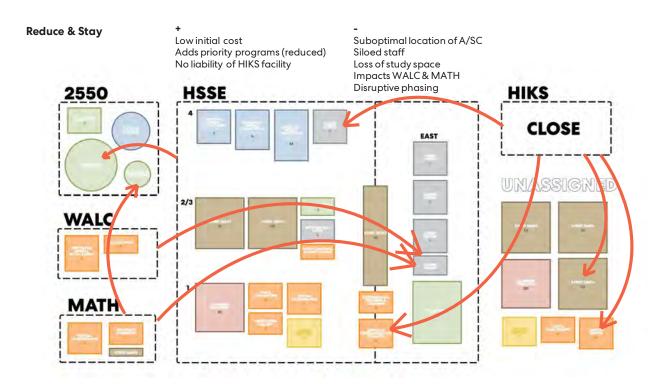
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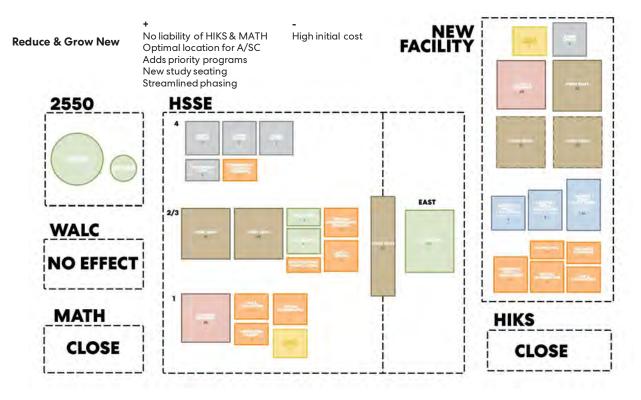


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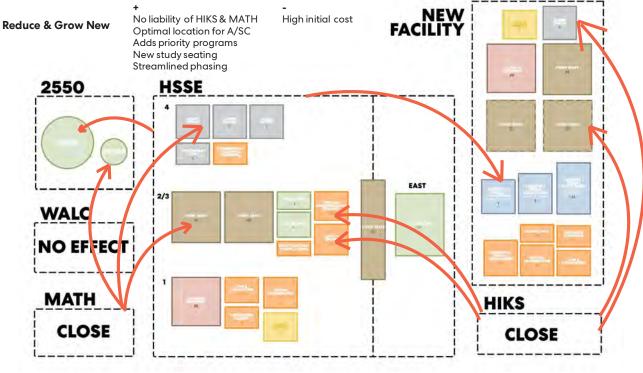


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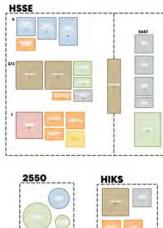
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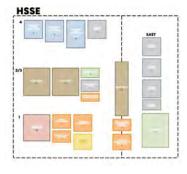
#### Stay & Renovate

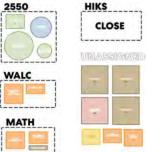




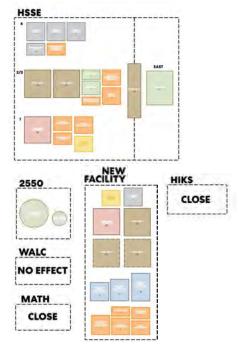
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#### Weighted Evaluation Matrix

1) PROGRAMS / SERVICES			STAV & R	ENQVATE	REDUCE & STAY		REDUCE & GROW NEW		ALLNEW	
ISSUES	IDEAL CRITERIA	INDEX	RATING	SCIDRE	RATING	SCIDRE	RATING	SCIDRE	RATING	SCIDRE
Digital Scholarship	Collocated Digital Scholarship accussible to staff & faculty - synergistic adjacencies	0	0.	0		0		0		0
Knowledge Gallery	High visibility with environmental controls/security that is near A / SC			0		0.		0.		0
Virtual Learning Hub	Good distribution of 100-150 seats accessible from all parts of campus			0		0		0		0
Archives / Special Collection	Collocated # growth potential in visible/accessible/secure location near innoviedge Gallery			D		o		0		0
Raff Collision	Collocation of staff for collaboration, asthening, and team/community building			0		0		0		0
Rudent Expeniince	Reinforce Purdue culture, make scholer hip veible, seeting choice			Ó.		a		a		a
Accessibilitzy	Physically / culturally welcoming with distribution and access to all stutionts			Ő.		α		α		ø
				0	1 million 1 million	0		ø	14	0
TOTALS	IDEAL SCORE (Sum all the Indexes multiplied by Ideal Raining of 4)	0		0	1	0	1.0	0	1	0

(2) IMPLEMENTATION LOGISTICS			STAV & RENOVATE		REDUCE & STAY		REDUCE & GROW NEW		ALLNEW	
ISSUES	IDEAL CHITERIA	INDEX	RATING	SCIDRE	RATING	SCORE	RATING	SCIDRE	RATING	SCORE
Phasing Daruption	Minimize operating disruption for caudents, staff, and services	0	0	0		0.		a		g
Fulsine Growth	Slear pathway for growth	and the second second	1.1.1.1.1.1.1	0		0		ø	10.000	0
Initial Conv	Relative Cost from least expensive (4) to most expensive (1)			0		D		a		0
Operating Costs	Long term maintenance / management of facilities.			0		0		α		0
Schedulle	Tangible impact in least amount of time			0		0		0		0
Donor Potential	Results in a project that captures the interest/imagination of potential donors.			0		0		ø		0
				0		σ		0		0
				0		α		α		α
TOTALS	IDEAL SCORE (Sum of the Indexes multiplied by Ideal Rating of A)	0		0		0	1	D		0

(3) ALIGNMENT WITH PURD	UE MISSION / VISION		STAY & F	RENDVATE	REDUCE & STAY		REDUCE & GROW NEW		ALL NEW	
ISSUES	IDEAL CRITERIA	INDEX	RATING	SCORE	RATING	SCORE	RATING	SCIDRE	RATING	SCORE
Access & Inclusivity	Welcoming and accessible to all	0,	0	0	1	0		0	1	0
Collaborative Raliationships	Encourage cross-disciplinary / twem based problem solving and scholarship	and the second	1.000	0		0		u		0
Innovation Splices	Promote / Support the persetant pursuit of innovation			0		- 01		α		a.
Local, National, Global	Make visible that connect regionally, extonally and internationally			0		0.		0.		a.
Transformational Learning	Showcase look and programs supporting new modes of learning			0		0.		0.		- 12
	and the second			0		α		Ω.		Ξ.
				0		α.		0		0
				0		a di		σ		0
TOTALS	IDEAL SCORE (Sum of the Indexes multiplied by Ideal Rating of 4)	0		0		0	1.	u u		0

#### Slide 33 of 75

#### Weighted Evaluation Matrix

ISSUES	IDEAL CRITERIA	INDEX
Digital Scholarship	Collocated Digital Scholarship accessible to staff & faculty + synergistic adjacencies	0
Knowledge Gallery	High visibility with environmental controls/security that is near A / SC	
Virtual Learning Hub	Good distribution of 100-150 seats accessible from all parts of campus	
Archives / Special Collection	Collocated + growth potential in visible/accessible/secure location near Knowledge Gallery	
Staff Collaboration	Collocation of staff for collaboration, gathering, and team/community building	
Student Experience	Reinforce Purdue culture; make scholarship visible; seating choice	
Accessibility	Physically / culturally welcoming with distribution and access to all students	
TOTALS	IDEAL SCORE (Sum of the Indexes multiplied by Ideal Rating of 4)	0

INDEX LEGEND

0= Irrrelevant

1= Helpful

2 = Desirable

3 = Important 4 = Essential

r – cosential

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#### Weighted Evaluation Matrix

ISSUES	IDEAL CRITERIA	INDEX
Phasing Disruption	Minimize operating disruption for students, staff, and services	0
Future Growth	Clear pathway for growth	1115
Initial Cost	Relative Cost from least expensive (4) to most expensive (1)	
Operating Costs	Long term maintenance / management of facilities	
Schedule	Tangible impact in least amount of time	
Donor Potential	Results in a project that captures the interest/imagination of potential donors	
TOTALS	IDEAL SCORE (Sum of the Indexes multiplied by Ideal Rating of 4)	0

INDEX LEGEND 0= Irrrelevant 1= Helpful

2 = Desirable

- 3 = Important
- 4 = Essential

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#### Weighted Evaluation Matrix

#### (3) ALIGNMENT WITH PURDUE MISSION / VISION

ISSUES	IDEAL CRITERIA	INDEX
Access & Inclusivity	Welcoming and accessible to all	0
Collaborative Relationships	Encourage cross-disciplinary / team based problem solving and scholarship	100
Innovation Spaces	Promote / Support the persistent pursuit of innovation	
Local, National, Global	Make visible that connect regionally, nationally and internationally	
Transformational Learning	Showcase tools and programs supporting new modes of learning	
TOTALS	IDEAL SCORE (Sum of the Indexes multiplied by Ideal Rating of 4)	0

IN	DEX	LEC	GE	ND

0= Irrrelevant

1= Helpful 2 = Desirable

3 = Important

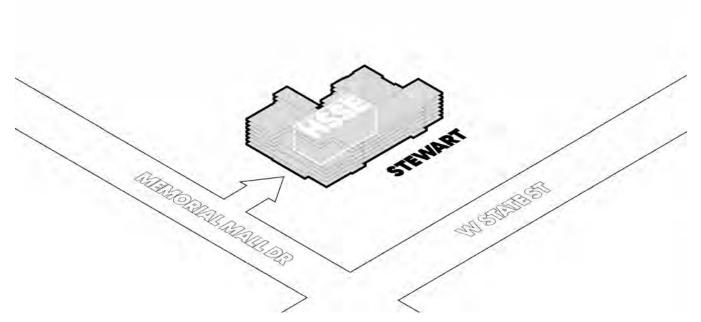
4 = Essential

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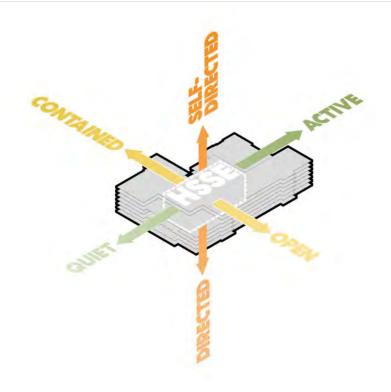
# **High Level Look At HSSE**

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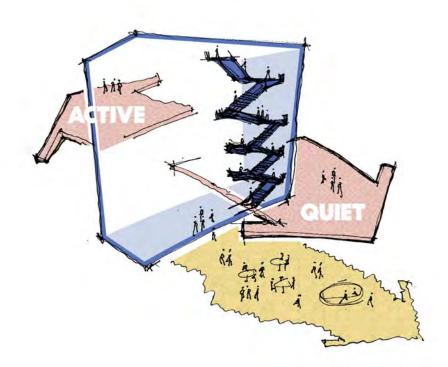
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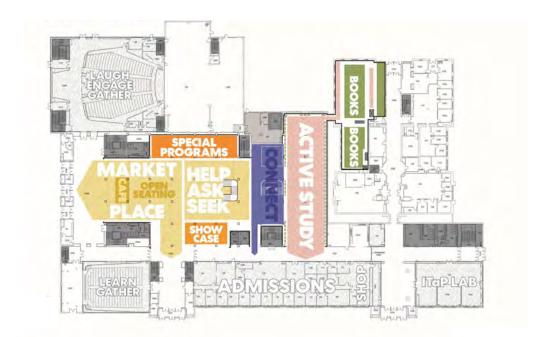


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# STAY & RENOVATE REDUCE & STAY

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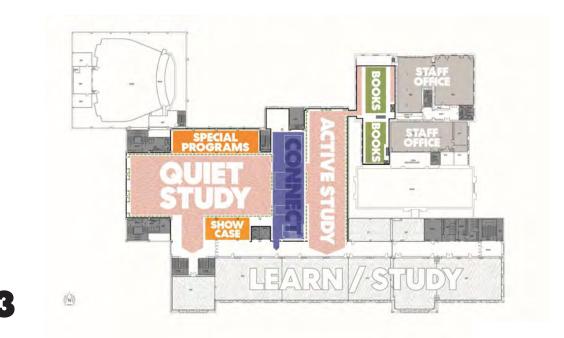


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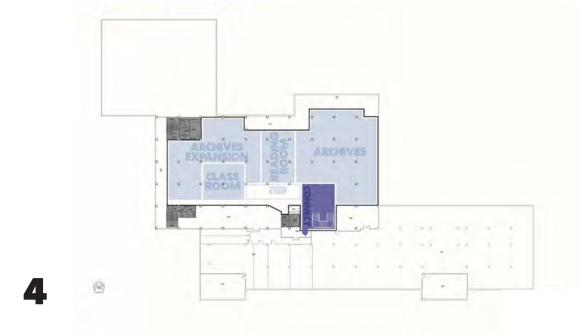


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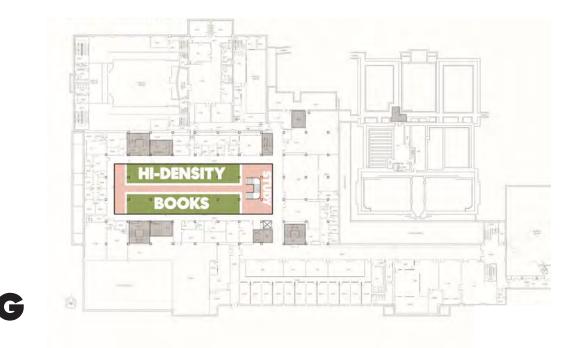


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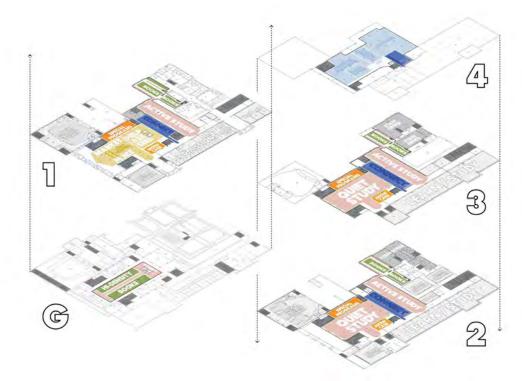


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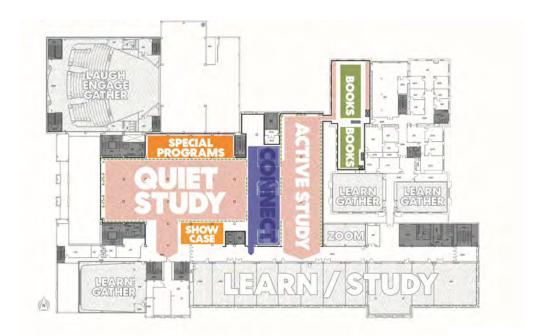
# REDUCE & GROW NEW ALL NEW

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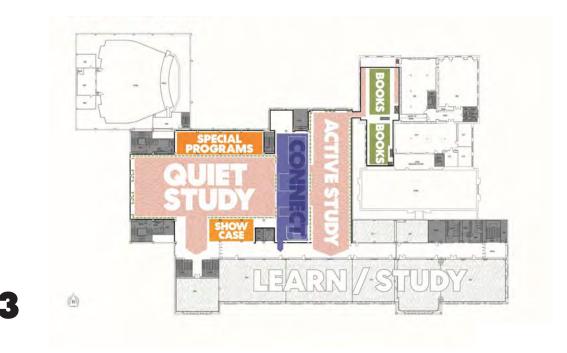
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## 2

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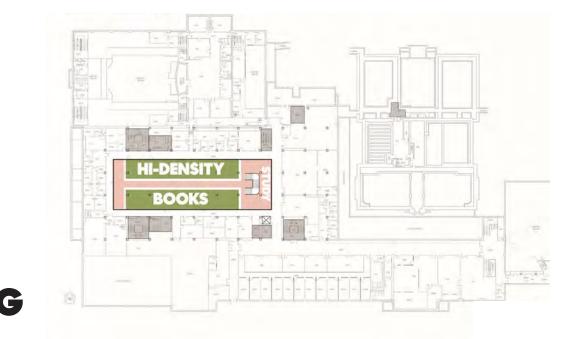


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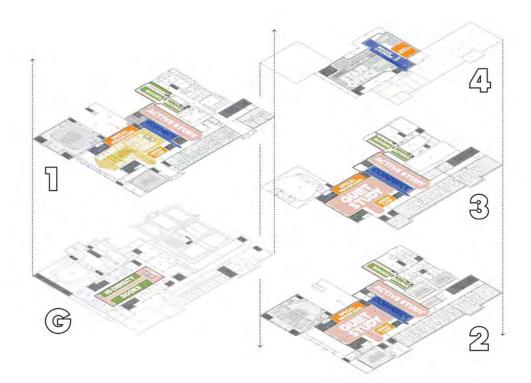


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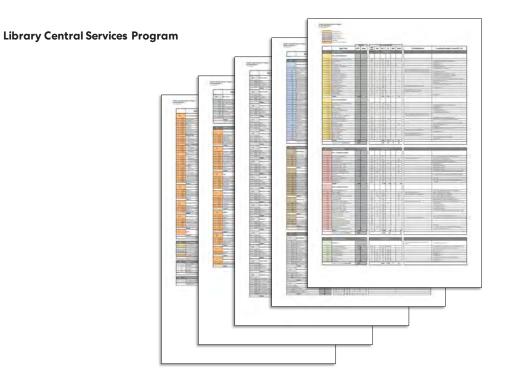


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# **Preliminary Programming**

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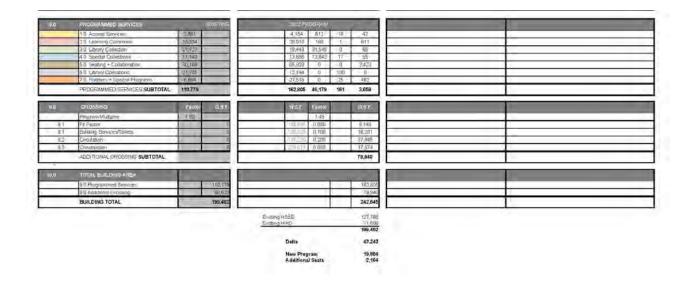


#### Program Organizational Structure

	Access Services Literano Conference Literano, Collectiono Stenedo Collectiono Secolar de Collectiono Secolar de Collectionador Operativas Partmets + Special Programs	EXI	STING	_		2022 FULL	PEOGRA	M			
	Space Type	N.S.F.	Seats	Unit/ Area	aty.	N.S.F.	LF	Staff	Seats	Critical Adjacency	Functional Description / Special F.F. & E
10	ACCESSISERVICES	1000		Territory and	for some the	23	000,004	19	(		
	SITE 1 ACCESS SERVICES		-						1 - 1	1	
10	Circulation Lib / Access Service Desk	-	-	150	1	150	-	2	-	-	
112	Reserve Shawing	-		10	3	30	- 54	2.000	p	2	6-high shelving. B-high tor means shelving
113	Holds			10	5	- 30	- 54		1 ·····		6-high shelving
1.14	Telabook Shelving			10	2	30	- 34		p:		5-high shelving
115	Loansble Equipment Storage	1		70	- 6	50	-		2. 1		Ladable clibinets / carts
1.1.8	Los & Found			10	- T	10		· · · · · ·			(1) 4-high lateral file or cabinet
1.1/2	Reference Floorik	· ·	State of Concession, Name	84	1	64	-	1.1	I	Touchdown style kinsk near or part of circ desk:	
1.1.8	IT-Support Hosk	1		64	1	64		1		Touchdown style kinsk near or part of circ desk.	Size for one or two staff
1.1.8	Main Entry Security Desk	-	-	84	-1-	64		1	P		Staffed security desk near entrylexis point.
11.10	Ready Reference Collections	-		10	1	10	18	1	1.000		3-high shelving for ready reference materials
1.1.11	Securi Display   Showcase	- E	1	500	1	500			P		Security + Climate Centrol for A/SC
11.12	Marketplane E-descion			100	1	100					spine out moved with face-out display, loanable technology, a
101.13	Marketplace Sesting			-35	- 18	280		S	- U	5	Short term launge sealing
1.14	Consultation Room	-		60	C. 0	80			11 (1)	1	2-3 persons
11.15	Drup in Services			BEL		BO		· · · · · ·		Y	Humiles that may follow have a submit as a submit a bring the
L.E.18	Consultation Watting Area			100	1	100			.2	Adjacent to consult room & circ deale	
1.6.17	Express Computers			-20	- 23	460					Stand-up stations
11.18	Express Printers	1		15	2	30.			1	widjaters to express computers.	
1119	Ejpress Copy/Scan			- 25	2	50			j	Adjuctet to express computers	
1.1.20	Dontal Signage	1	1	20	1	20	-		Pr		
1125	Self-Cherck Stations	Contraction of the local division of the loc	1	25	2	50	-				At main entry.
	Subtotal	3,891	ò			2,192	160	5	10		

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#### **Program Organizational Structure**



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Data Collection Update

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Monday/ Tuesday March 7<sup>th</sup> & 8<sup>th</sup> OBSERVATIONS & COUNTS

# **Qualitative & Observational Data Collection**

power / seating / privacy	setting / atmosphere / support	adjacencies / am	enities
¢		((* •))	

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175 MicroZones

10 Rounds

of HSSE / HICKS / PARRISH / WALC / MATH



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Monday/ Tuesday March 7<sup>th</sup> & 8<sup>th</sup> OBSERVATIONS & COUNTS

## **Data Processing Goals**

Establish physical characteristics and utilization relationship

Revision of "experienced capacity" with regards to types of seats

Creating profiles for best and worst used zones:

Furniture types Atmosphere Amenities Peak times Relationship to classes









Library

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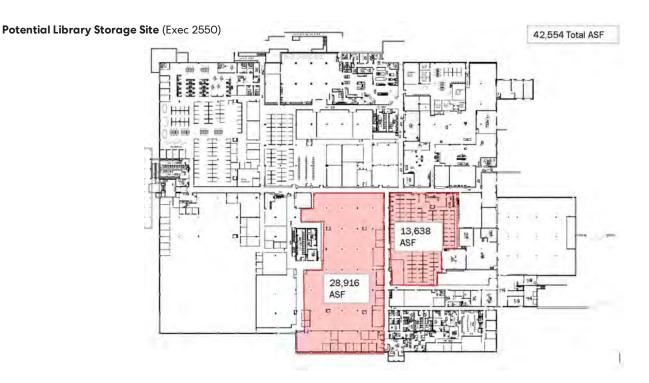
Perkins&Will

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# Next Steps: Offsite Storage Systems

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#### Potential Library Storage Site (Preliminary Test Fit)



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#### Potential Library Storage Site (Preliminary Test Fit)

#### Additional HSSE Collections: 40,600 LF

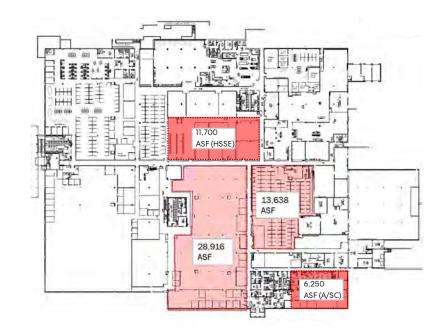
Need 11,000 SF HD Storage

#### Additional MATH Collections: ??LF

Need ??SF HD Storage

#### A / SC Storage:

- Need +/- 5,000 SF HD Storage
- Cold Storage Area
- Security Improvements
- Fire Protection Improvements
- Environmental Control Improvements



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# Next Steps: Virtual Learning Hub Prototyping

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# Virtual Learning Hub



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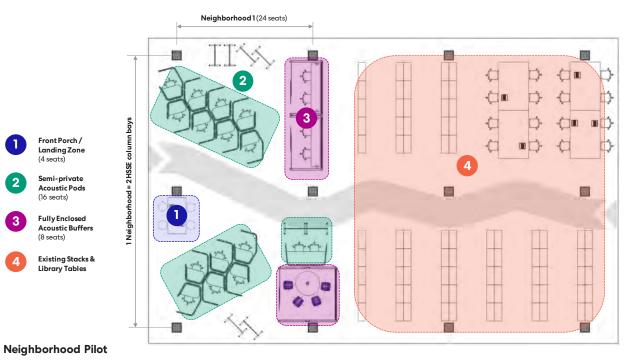






Privacy pods

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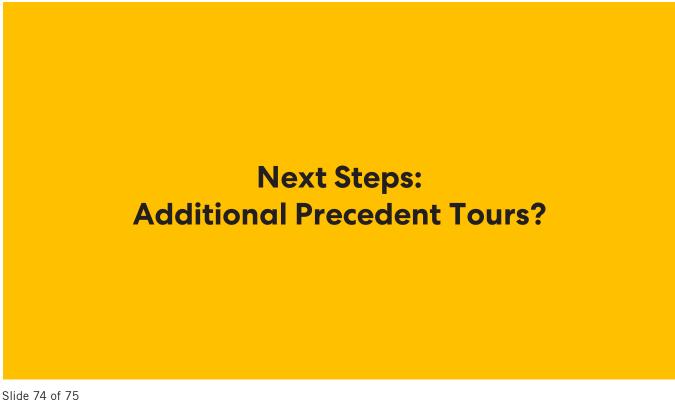
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# **Next Steps**

Workshop #6

Virtual, April 1

Dean's Advisory Committee

Virtual, April 8

Workshop #7

In-person, April 12 – 14

University Library Committee

Executive Committee Meeting

Student Engagement?

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## Workshop 6: April 01, 2022

#### **Meeting Details**

Meeting Date:	4.1.2022	Project Name:	Purdue University Libraries Master Plan
Meeting Time:	9:00 AM	Project Number:	021661.000
Meeting Location:	Via Teams	Attendees:	Jessica Figenholtz, Derek Jones, Eileen Jones, Flo Mettetal, Stephen Lenz, Mark, Drew, Allison, Beth, Rebecca, Scott, Dorothy, Gulich

#### Discussion

ITEM NO.	DESCRIPTION	RESPONSIBILITY
001	Workshop #6	Perkins + Will
	<ol> <li>Beth: Floor 1 – Current support iTAP is new welcome center, G rethinking east/west corridor. Colocation – Is a low driver, staff located in a way that works. Moving Library Leadership – Like ideas that don't place too m in 4<sup>th</sup>, could be more a digital humanities space, student drive are relocated.</li> </ol>	nany people
	<ol> <li>Stephen: Recorded spaced attributes 7 libraries.</li> </ol>	
	<ol> <li>Allison: Will need to determine optimum mix for utilization.</li> </ol>	
	<ol> <li>Michael: Issue designing lower level of union. Had a lot of 4 to people at them and students are less likely to come up and si won't be alone".</li> </ol>	•
	5. Derek: your 5 or 6 top can break up to smaller groups.	

**Please note:** The foregoing constitutes our understanding of matters discussed and conclusions reached. Other participants are requested to review these items and advise the originator in writing of any errors or omissions.



#### PRESENTATION SLIDES



Purdue University Library Master Plan Workshop #6

Perkins&Will

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## Agenda

#### Introductions & Overview

Brand Experience Discussion Brand Drivers Diagram Strategic Opportunity Matrix Experience Diagram

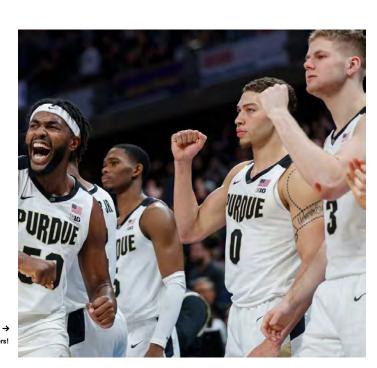
Occuspace Update Site Observation Process Occuspace Data Analysis

**Evaluation Criteria Matrix Feedback** 

#### **Program Review & Discussion**

Wrap Up Agendas for Additional Meetings Workshop #7 Agenda

→ Good effort Boilermakers!



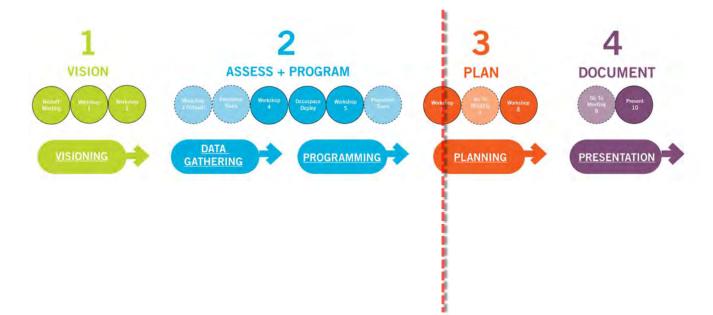
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# **Project Status Updates**

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#### Master Plan Process



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# **Brand Experience Discussion**

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# **PURDUE UNIVERSITY**

## UNIVERSITY MISSION STATEMENT

Our mission is to help Purdue University students **maximize the value of their life experiences**. As we **develop collaborative relationships** in a safe and respectful environment, the **unique value of dignity of each individual** and group is held paramount.

## LIBRARY MISSION STATEMENT

We lead in research, teaching, and learning, and create and provide **equitable access** to diverse resources, outstanding services, and **innovative spaces**, for Purdue's **local**, **national, and international communities** 

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## PURDUE UNIVERSITY BRAND

Purdue University is about the **persistent pursuit of innovation** where people bring their best and learn to build a better world together.

## Or more simply:

Persistent Innovation. Together.

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## PROGRAM DRIVERS

Support the Persistent Pursuit of Innovation Virtual Learning Hub Center for Digital Scholarship Knowledge Gallery Expanded Archives & Special Collections Improved Seating Quantity & Quality Collaboration / Collocated Staff Support South Campus Development Visible. Accessible. Welcoming To All.

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**Purdue Libraries** 

Values

Innovation Collaboration Equity

Stewardship

Agility

Service

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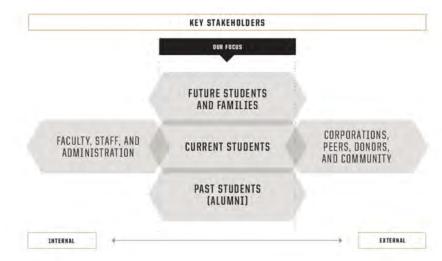


# **Audiences**

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#### Audience Types - Purdue University

Our Brand is built around five (5) key stakeholder groups that shape the experience we create.



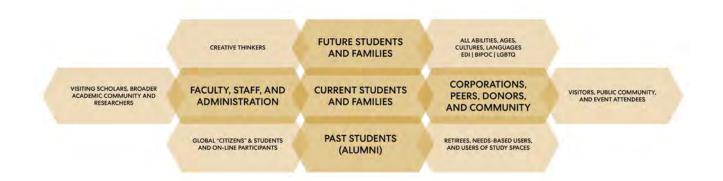
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Audience Types – Purdue Libraries	
All Students	Visitors & Visiting Scholars
All Faculty	Prospective Students
Staff	Academic Community
Public Community Members	Researchers
Alumni	Student Families
Donors	EDI   BIPOC   LGBTQ
Retirees	Creative Thinkers
Global "Citizens" & Students	Needs-Based Users
On-Line Participants	Users of Study Spaces
Event Attendees	All Abilities, Ages, Cultures, Languages

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#### Audience Types - Purdue Libraries



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# **Current & Future Brand**

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**Current Brand** 

"We are a **welcoming service organization** that struggles to define itself and strives to be better understood by students, faculty, staff & administration."

"We are **more** than books."

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#### **Future Brand**

"Cohesive, complementary and inclusive portfolio of **resources and experiences** that allow for growth, experimentation, and full engagement by all."

"Discover, create, innovate. Let us inspire you!"

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# Brand Recap - Purdue Libraries Chara Welcoming service organization. Equitable access to information & resources. Grach crucial information skills. Furthering the field of Information Science through research. Distributed "hodge-podge" of resources & services. We have study spaces; WE ARE MORE THAN BOOKS. Striving to be better understood by all. Nice. Helpful. Friendly. Welcoming. Willing and Ready to Assist. Open to new ideas. Serve the information needs of the Purdue community.

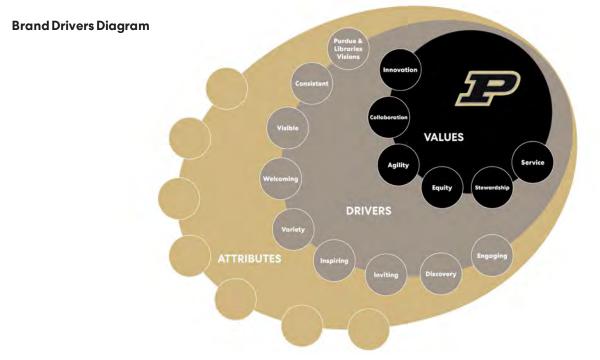
Future

An Information Service Hub for Purdue...so much more than books! Cohesive. Complementary. Inclusive. Discover. Create. Grow. Innovate. Let us inspire you. Advancing leadership and the profession through critical research. Portfolio of resources, experiences and experimentation for all. Dynamic multi-space environment with great resources. Responsive services and staff at the academic forefront. Expert level instruction and personalized guidance.

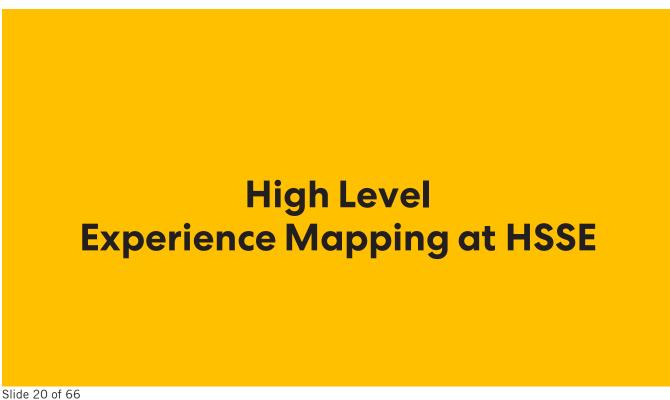
Connected within our organization, the university, the community, and the world.

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#### MEMORABLE EXPERIENCE Awe inspiring Inspire Discover Connect Create EXCITEMENT Knowledge Emotional Energizing (?) Journey Belonging Exciting Authentic Awe Inspiring Community Serendipity Help Fun Inspiring Sense of Place HELP AUTHENTIC Peaceful Dedication Wonder INSPIRING FUN VOHDER EDICATION

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#### **Library Experience**

Inspire Show Demonstrate Excite Energize

## Engage

Collaborate Connect Community Partner Share

#### Study Learn Concentrate Seek

## Innovate

Collaborate Experiment Ideate Make

## Discover

Explore Learn Authenticate

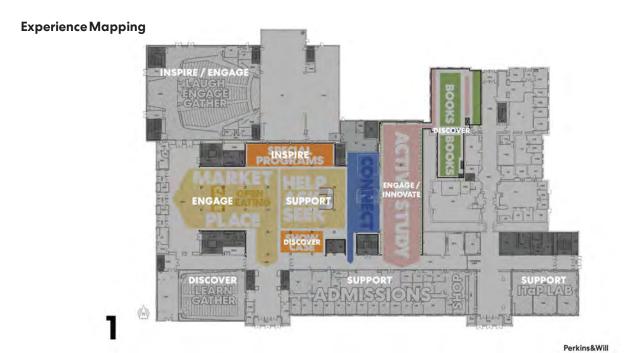
## Support

Help Information Print Technology

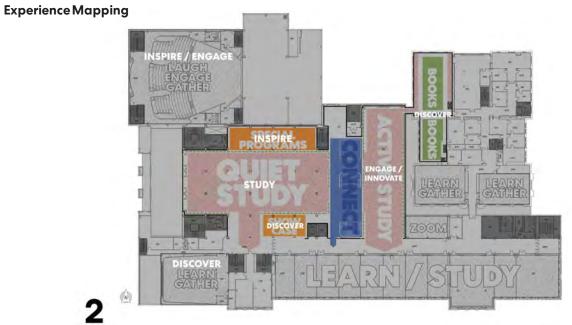


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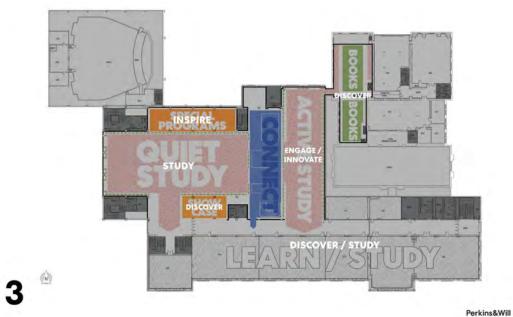


Perkins&Will

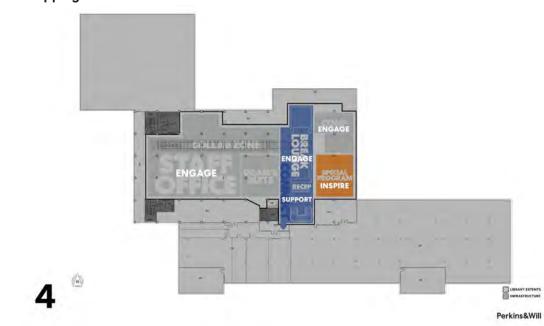
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### **Experience Mapping**



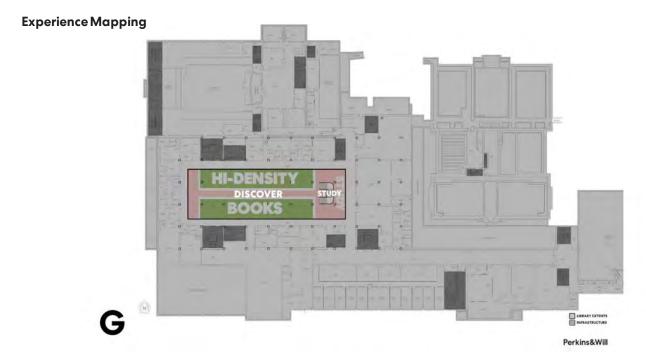
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Experience Mapping

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### **Stories**

Library Locatio	Our History   Our Archives   Our Collections
Our Services, F	A Place for Knowledge Creation
Personal-Touc	Authentic Source of Information
At Purdue, it's	Patents, Firsts, Innovations at Purdue
The Digital Exp	Your Experience Begins at Purdue Libraries
We are ONE L	Research & Explore
Our Expanded	Study, Learn, Collaborate, Innovate, Celebrate
Our Rich Data	Physical Places & Spaces
Vital Partnersł	Information Literacy

Library Locations & Specializations Our Services, Resources & Tools...More than Books! Personal-Touch Assistance...Let Us Help You! At Purdue, it's Cool to be Smart The Digital Experience We are ONE Library System Our Expanded Network Our Rich Database Vital Partnerships

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### **Story-Telling**



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# **Prioritization Tool**

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Exterior Identity	STEWART	HICKS	WALC	KRANNERT	LYNN	MATH	7 Transportation Technology TERMINAL	STEWART
	~	~						
			~	~	~	~	~	$\checkmark$
Interior Identity	~	~	~	~	~	~	~	~
Virtual Learning Hub	۲					۲		
enter for Digital Scholarship			۲					
Knowledge Gallery	۲							
Storytelling	۲	۲	۲	۲	۲	۲	۲	۲
Exhibitions	۲	۲	۲	۲	·4.	*	۲	۲
Wayfinding & Signage	~	~	~	~	~	~	~	~
Web Presence	~	~	~	~	~	~	~	~

### Strategic Opportunities Matrix

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# **Occuspace Update**

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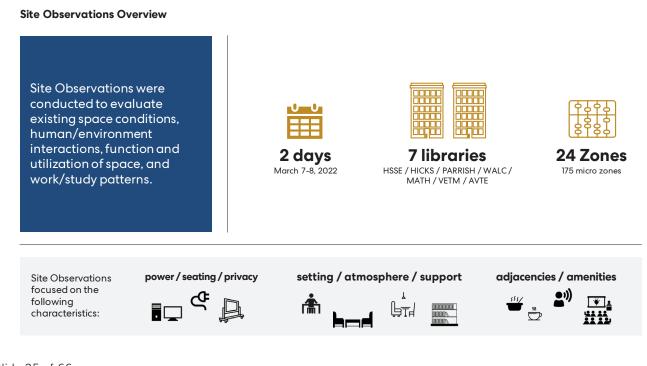
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# **Site Observations**

**Purdue University** 

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#### **Site Observations Summary**

#### Greater utilization in libraries with many features (classrooms, food/beverage).

Students often observed working individually or in pairs of two, even when in a conference room.

Conference rooms do not have consistent technology or reservation protocols.

Vacant classrooms used as study space for one person/group.

Mobile whiteboards used to write and create semi-enclosed boundary.



### Adaptions and Adjustments

- Mobile whiteboards used to define space. Desktop computers were often used in
- conjunction with student laptops.
- Storage modes are inconsistent across floors.



Agile spaces equipped with whiteboards and

Individual spaces (carrels) were most sought after.

Transient/short-term use of areas outside classrooms

technology/power were well used.

followed by tables with dividers.

#### **Light and Views**

- Views into other spaces, especially if allowed natural light to filter, were highly desirable/greatest utilization.
- Students tend to sit near access to daylight (light well, clerestory window).
- Lounge chairs turned to face windows sill used to prop feet up.

### Acoustics

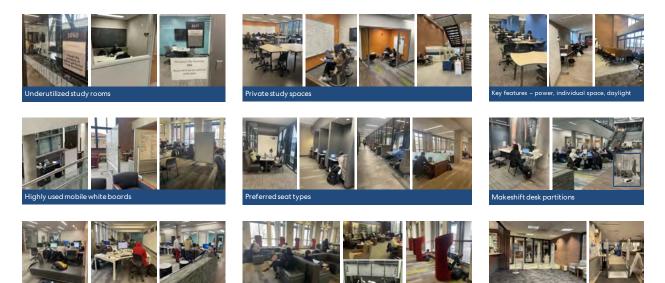
- Headphones commonly observed in use for noise mitigation
- Areas around amenities and restrooms were loud and primarily used for socialization
- General understanding of appropriate areas to collaborated vs. focus

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35



### **Site Observations**



ounge seating for one ... to lounge

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#### **Site Observations**



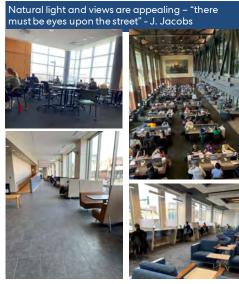
Studying alone but surrounded by others – both in quiet vs active spaces

y of students used desktop with their laptops



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Data Insights |

# When does each library 'feel' at capacity ?

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Data Insights |

Determine peak for each MicroZone

Purdue University Active Learning Center (WALC)

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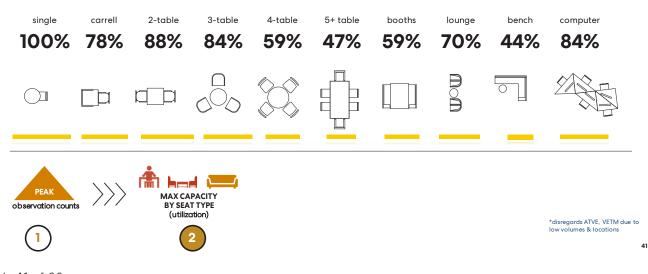
When does each library 'feel' at capacity ?



### Data Insights |

### When does each library 'feel' at capacity ?

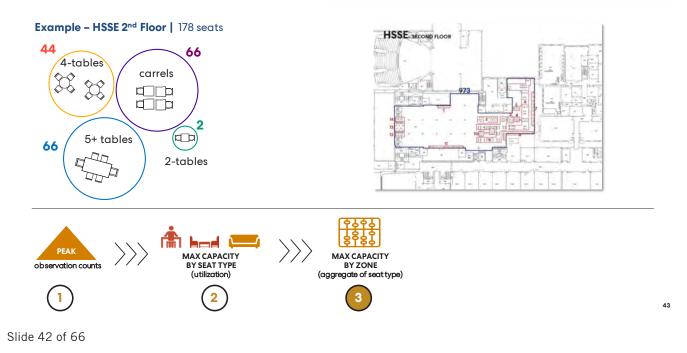
### Each MicroZone has a predominant seat type. This is the average\* utilization by seat type at peak observed usage:



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Data Insights |

## When does each library 'feel' at capacity ?

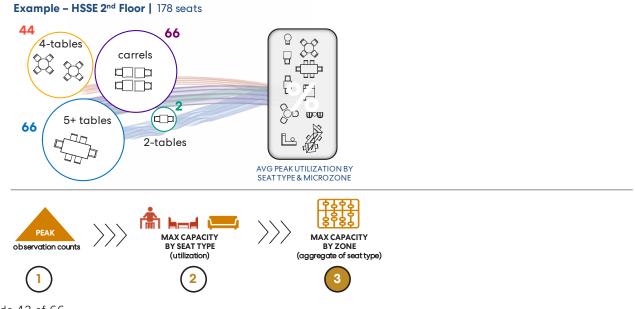




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### Data Insights |

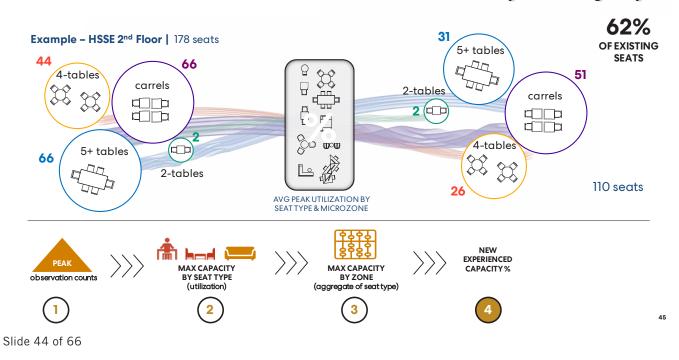
### When does each library 'feel' at capacity ?



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Data Insights | Questions to Answer

When does each library 'feel' at capacity ?





When does each library 'feel' at	WALC WALC WALC WALC WALC WALC WALC WALC	Lower Level Main First Floor Main First Floor North Second Floor North Open Computers North Second Floor Reading Room Third Floor North	961 962 963 964 966 967	98 100 18 23 33	85 67 11 18	86% 67% 61% 79%	90% 80% 89% 96%	-3% -13% -28%
library 'feel' at	WALC WALC WALC WALC WALC	First Floor North Second Floor North Open Computers North Second Floor Reading Room	963 964 966	18 23	11 18	61%	89%	
library 'feel' at	WALC WALC WALC WALC	Second Floor North Open Computers North Second Floor Reading Room	964 966	23	18			-28%
library 'feel' at	WALC WALC WALC	Open Computers North Second Floor Reading Room	966			79%	06%	
	WALC	Second Floor Reading Room		33			7076	-16%
-	WALC		967		30	91%	100%	-9%
-		Third Floor North		146	130	89%	86%	4%
	WALC		968	25	17	68%	88%	-20%
annaaity ?		Third Floor East	969	58	48	83%	83%	0%
capacity ?	WALC	Third Floor West	970	78	58	74%	77%	-2%
	WALC	Open Computers South	999	24	21	85%	83%	2%
	HSSE	First Floor Main	971	210	136	65%	93%	-28%
	HSSE	First Floor Classroom	972	28	13	47%	86%	-39%
Comparison baturoon	HSSE	Second Floor Main	973	178	110	62%	84%	-22%
Comparison between	HSSE	Third Floor Main	974	146	93	64%	89%	-25%
experienced capacity based	PRSH	Second Floor Main	975	225	133	59%	84%	-25%
	PRSH	Second Floor Learning Lab	976	40	33	84%	90%	-6%
on seat types vs. currently	PRSH	Second Floor Corporate Study	977	38	23	61%	87%	-26%
used numbers	WALC	Second Floor LOES	978	65	50	77%	95%	-18%
used Humbers	MATH	Third Floor Main	979	107	65	60%	89%	-28%
	MATH	Third Floor Graduate Study	980	34	23	68%	74%	-5%
	HICKS	Ground Floor Main	981	707	456	64%	74%	-10%
	VETM	First Floor Main	982	112	72	64%	88%	-24%
	VETM	First Floor Carrels	983	26	20	78%	92%	-14%
	AVTE	First Floor Main	984	34	23	69%	88%	-19%
		First Floor Main	984	34	23 NEW	69%	88%	-19
PEAK observation counts	$\rangle\rangle$	MAX CAPACITY BY ZONE (aggregate of seat type	$\rangle$	$\rangle\rangle$	CAPACIT	/	$\rangle\rangle$	COMPARI

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### **Next Steps**

Questions we want to explore for next meeting:

Conversation with Occuspace to revise "experienced capacity" based on seat types.

2

- Explore additional attributes recorded (table shape, proximity to window, food etc..).
- Where do students sit when they have a choice ? exploration of nonpeak hours data.
- Quantify classroom impact on certain libraries -• Spring 2021 schedule received last Tuesday.

### Deliverable

3

Create profiles for the most and least used zones:

- Furniture types
- Atmosphere
- Classroom Relationship

ANYTHING MISSING?



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5

4

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# **Evaluation Criteria Matrix**

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### Weighted Evaluation Matrix

IDEAL SCORE (Sum of the Indexes multiplied by ideal Rating of 4

(1) PROGRAMS / SERVICES			57AY & I	RENOVATE	REDUCE	& STAY	REDUCE &	GROW NEW	AU	NEW
ISSUES	IDEAL CRITERIA	INDEX	RATING	SCORE	RATING	SCORE	RATING	SCORE	RATING	5COR
Digital Scholemhip	Collocated Digital Scholarship accessible to staff & faculty + synergistic adjacencies	3	2	6	2	6	4	42	4	12
Knowledge Gellery	High visibility with environmental controls/security that is near A / SC	4	3	12	3	12	4	16		1,6
Virtual Learning Hub	Good distribution of 100-150 seats accessible from all parts of campus	4	2	8	2	8	4	16	3	12
Archives / Special Collection	Collocated - growth potential in visible/accessible/secure location near i nowledge Gellery	4	1	4	1.1	4	4	16	1.40	36
Staff Collaboration	Collocation of staff for collaboration, gathering, and team/community building.	2	2	4	1	4	18	6	3	6
Student Experience	Reinforce Purdue culture, make scholarship vesible, seeting choice	-4	3	6	4	4	4	4	1.4.1	8
Accessibility	Physically / culturally welcoming with distribution and access to all students	-1	1	12		- A	- 3	12	4	16
Protection of Collections	Ability to secure collections on or off site	-4-	3	12		4.2	3	17	3	32
		10. II.		0		0		0		0
TOTALS	IDEAL SCORE (Sum of the Indexes multiplied by Ideal Rating of 4)	116	100 B	64		54		98		- 98
				55%	· ·	47%		34%		84%
(2) IMPLEMENTATION LOGIS	Tit		TAVE	RENOVATE	BEDLICE	& STAY	BEDUCE R	GROW NEW	ALL	
ISSUES	IDEAL CRITERIA	INDEX	RATING	SCORE	RATING	SCORE	RATING	SCORE	RATING	SCOR
Phasing Disruption	Minimize operating disruption for students, staff, and services	3	harmed	3	1	3	3.	9	4	12
Future Growth	Clear puthway for growth	4	1		1		4	16		16
Initial Cost	Relative Cost from least expensive (4) to most expensive (1)	4	1	12		16	2	8	1	
Operating Costs/SF	Long term maintenance / management of facilities	4	1	4	2	8	3	12	. 4	16
Schedule	Tangible impact in least amount of time			12	3	12	2	s	- 1	
Donor Potential	Results in a project that cuptures the interest/imagination of potential domois	3	2	6	7	6	1.5		3	u .
		1.0		0		0		. 10	1.2	. 0
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TOTALS	JDEAL SCORE (Sum of the Indexes multiplied by Ideal Rating of 4)	88		41		49	-	62		61
			-	47%		56%	1	70%		69%
						- 9	-	3		
(3) ALIGNMENT WITH PURD	JE MISSION / VISION	_	STAY &	RENOVATE	REDUCE	& STAY	REDUCE &	GROW NEW	AU	NEW
ISSUES	IDEAL CRITERIA	INDEX	RATING	SCORE	RATING	SCORE	RATING	SCORE	RATING	SCOR
Access & Inclusivity	Welcoming and arrestible to all	4	1	4	1	4	3	12	4	16
Colleborative Telecionships	Encourage cross-disciplinary / team based problem solving and scholarship	3	A	3	1	3		12	3	9
Innovation Scaces	Promote / Support the persistent pursuit of innovation	4	- 2	8	- 2	8	3	34	. 4	36
Local, National, Global	Make visible the connectiong regionally, nationally and internationally	2	4	B-	- 4	8	.4.	1	- A	
Transformational Learning	Showcase tools and programs supporting new modes of learning	4	2	8	2	8	4.	16	4	16
				0	1.00	0		ū	1000	0
					1					1 4

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### Weighted Evaluation Matrix

(3) AUGNMENT WO	TH PURDUE MISSION / VISION		STAV & R	ENOVATE	REDUC	E & STAY	REDUCE &	GROW NEW	ALLNEW		
152/015	IDEAL CRITERIA	DADER	BATING	SCORE	BATING	SCORE	RATING	SCOTE	RETURE	SCORE	
		212		136		134		220		23	
				50%	ē — 1	49%		81%		82	
					S		1.00	5		1	
		INDEX LEGEND			RATING LEGEN	10					
		Dn frmefevant			0= Not Applica	ble					
		3= Helpful			I = Poor						
		2 = Desirable		1.3	2 = Fair						
		3 = Important		- 2	3 = Good						
		4 = Essential			I = Excellent						

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### **Program Content Summary**

### SF Comparison

Existing HSSE & HIKS nsf: 161,170 sf

Draft Program nsf: 208,390 sf

#### Seating

Existing Seat Count: 2,836 seats

### Seating Projections:

- 1995 ACRL method suggests need for: 5,214 additional seats
- 2006 A4LE method suggests need for: 4,234 additional seats
- Current Benchmark method suggests need for: **2,390** additional seats
- Draft Program adds 1,937 seats (80% of benchmark method)
  - 40% Active | 60% Quiet
  - Adds 41 group study rooms to existing (4 X increase)

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### **Program Content Summary**

•

### **Enhanced Programs**

- Study Seats (quantity and variety)
  - Quiet (silent?) Reading Room
- Themed Browsing Collections
- A / SC:
  - doubling storage capacity
  - cold storage
  - group room
  - conservation lab
- Maker Space

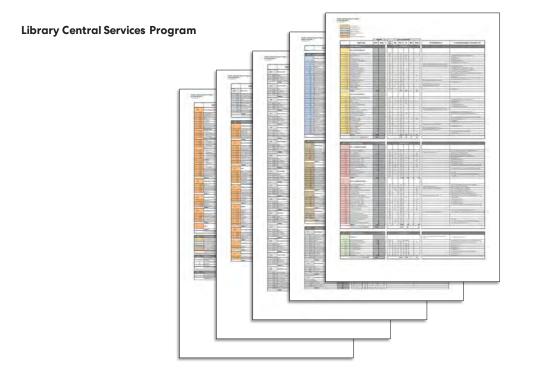
#### New Programs

- IT Support Desk
- Drop-In Services
- Express Computing
- Self-Check
- Print Lab
- Digital Signage
  Seminar Rooms (2)
- Seminar Rooms (2)
   Active Learning Class
- Active Learning Classroom
  Special Projects Rooms (5)
- Virtual Learning Hubs
  - Café

.

- Non-Traditional Students Lounge
- Experimental Classroom
- Center for Digital Scholarship
- Knowledge Gallery
- Graduate Commons





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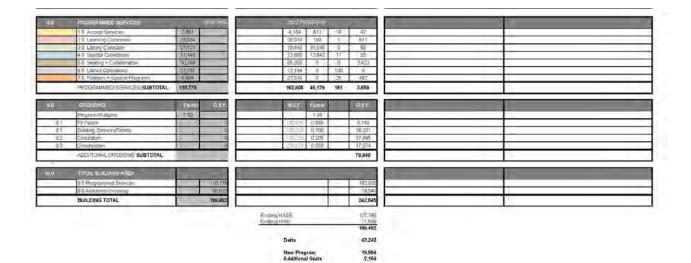
### **Program Organizational Structure**

	Access Services Latence Concreton Latence Concentions Service Collections Sealing + Collaboration Operations Partners + Special Programs										
		EXI	STING			2022 FULL	PROGRA	M	-		
	Space Type	N.S.F.	Seats	Unit/ Area	aty.	N.S.F.	LF	Staff	Seats	Critical Adjacency	Functional Description / Special F.F. & E
10	ACCESSSERVICES	1.7-1		Sec.	-	-21-	068474	19. mart	Summer of	summer water to a reason	1
	SITE 1 ACCESS SERVICES	-		111					$1 \le 1$	11	
10	Circulation Lib / Access Service Desk	-	-	150	1	150	-	2	-	-	
112	Reserve Shawing	-		10	3	30	-54	2 I	11	2	6-Nahrshelving, 8-high for medial shistiving
113	Holds			10	3	- 30	- 64		· · · · · ·		6-high shelving
1114	Telabook Shelving			10	2	30	- 54	1	1		6-high shelving
1.1.5	Loansble Equipment Storage	-		70	6	50	-		2		Lackable pabriets / carps
1.1.8	Los & Found	- Constanting		10	- T.	10		· · · · · · ·			(1) 4-high lateral file or cabinet
1.1.75	Reference Floosk	· ·	in the second second	84	1	64	-	1.11		Touchdown dyle kinsk near or part of circ desk:	
1.1.8	IT.Support Host:	1		64	1	64		1 T		Touthdown dyle kinsk near or part of circ desk.	Size for one or two staff
1.1.8	Main Entry Security Desk			84	-1-	<b>6</b> #		n ti i	1		Staffed security desk near entrylexit point.
1.1.10	Ready Reference Collections	-		10	T	10	18	1.00	1.1		3-high shelving for ready reference materials
1.0.11	Securi Display   Showcase	10		500	1	500					Security + Climate Centrol for A/SC
11.12	Marketplane Extension		1	100	1	100			-		spine out moved with fans-out display, loanable technology, a
EC101	Marketpilace Seating			- 35	- 18	280		h	1	( ) · · · · · · · · · · · · · · · · · ·	Short term lounge sealing
1.14	Consultation Room			BU	. <u>)</u>	80		1.1	10 C 10 C		2-3 persons
11.15	Drup in Services			BEL	-1-	BO		1		Y 1.	How we have a series of the second second second and the second s
1.1.18	Consultation Wating Area			100	1	100			. 2	Adjacent to consult more & circ desk	
1.1.17	Express Computers			-20	- 23	460					Stand-up stations
11.18	Express Printers	1		15	2	30.			h	with express computers.	
1119	Ejpress Copy/Scan			- 25	2	50		· · · · ·		Adjacett to express computities	1
11.20	Dontal Signage	1		20	1	20	·				
1125	Self-Cherol: Stations	-		25	2	50			-		At main entry
	Subtotal	3,891	ò			2,192	180	5	10		

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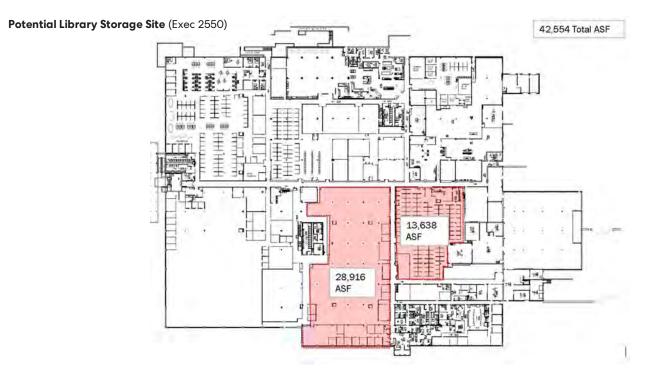
### **Program Organizational Structure**



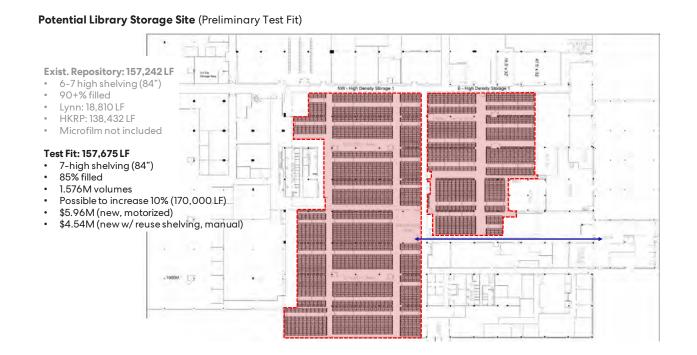
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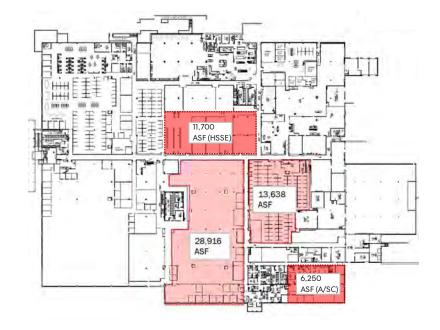
### Potential Library Storage Site (Preliminary Test Fit)

Additional HSSE Collections: 40,600 LF

Need 11,000 SF HD Storage

Additional MATH Collections: ??LF
• Need ??SF HD Storage

- A / SC Storage:
- Need +/- 5,000 SF HD Storage
- Cold Storage Area
- Security Improvements
- Fire Protection Improvements
- Environmental Control Improvements



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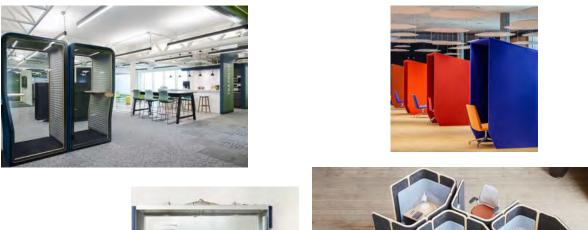




# Virtual Learning Hub



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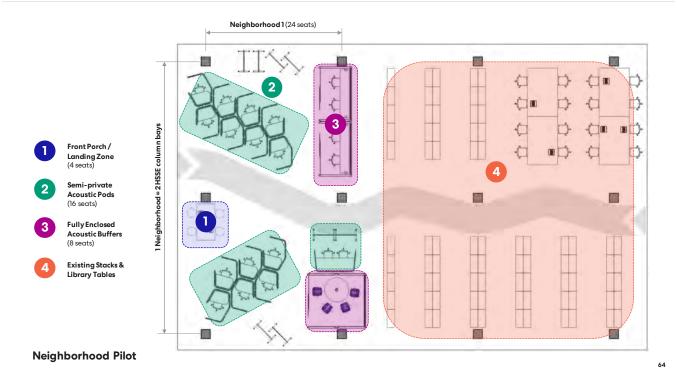




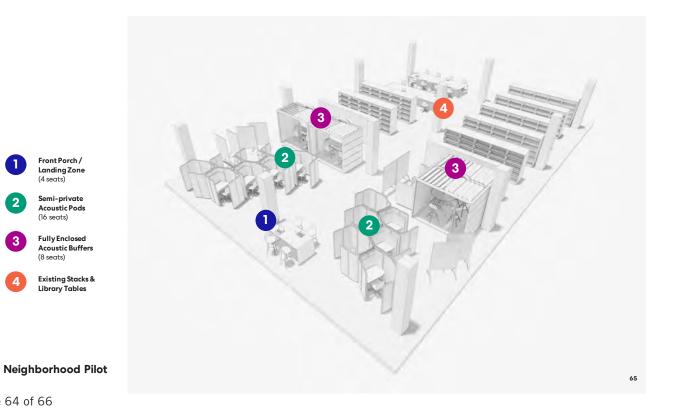
Privacy pods

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(8 seats)



# Wrap Up

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## **Next Steps**

April 8

9:30am - Dean's Advisory Committee Presentation

### April 13

11am – Campus Planning Meeting

2pm – University Library Committee Meeting

3pm – Future of Learning Symposium

### April 14

9:30am – Executive Committee Meeting

1:00pm – Workshop #7

Collect Student Input Boards

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## Workshop 7: April 14, 2022

### **Meeting Details**

Meeting Date:	4.14.2022	Project Name:	Purdue University Libraries Master Plan
Meeting Time:	1:00 PM	Project Number:	021661.000
Meeting Location:	Swaim Conference Room, 4th Floor	Attendees:	Jessica Figenholtz, Derek Jones, Eileen Jones, Florent Mettetal, Stephen Lenz, Mark, Drew, Allison, Beth, Rebecca, Scott, Dorothy, Gulich

### Discussion

ITEM NO.	DESCRIPTION	RESPONSIBILITY
001	Workshop #7	Perkins + Will
	<ol> <li>Program Summary: Experiential vs experimental; Experiential everywhere, experimental is in the program.</li> </ol>	
	<ol> <li>HIKS: medium term plan; If books moved to 2550, would want a specialized space to help with environmental control. Majority of rare books are in HIKS, need to figure out delivery between buildings.</li> </ol>	
	<ol> <li>SC/A will still be visible for site line; if there is a larger gallery or pocket gallery, security is an issue as well as humidity control; South campus is a growth are for campus, so make it more destination focused.</li> </ol>	
	<ol> <li>Need think through access to third floor, there is elevator access to all floors.</li> </ol>	
	5. Need to develop attributes for brand.	
	6. Open Discussion:	
	1. Offsite, if archival goes there, needs to be a clear logistics plan.	
	<ol> <li>Digital programs, if in separate buildings, need to have digitization facility.</li> </ol>	
	3. HSSE scenarios have security concerns	
	4. PW will propose organizational system for website	
	<ol> <li>Debrief: PW to send Purdue graphic template of site, note on their recent projects/investments and on separate one, possible future investments.</li> </ol>	
	Show past and future momentum; Define site criteria and partner criteria;	
	Bubble these ideas up to provost.	
	Action Item: Send service drivers & spatial attributes around for comment;	
	Determine the draw to get people to come to A/SC;	

**Please note:** The foregoing constitutes our understanding of matters discussed and conclusions reached. Other participants are requested to review these items and advise the originator in writing of any errors or omissions.



### **PRESENTATION SLIDES**



Purdue University Library Master Plan: Workshop #7 4/14/2022

Perkins&Will

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## Agenda

Master Plan Status & Schedule Update

**Data Collection Update** 

Last Workshop Recap Precedent Tour Takeaways Project Vision Statement

**Planning Scenarios** 

**Experiential Mapping** 

Program

**Open Discussion & Wrap Up** 



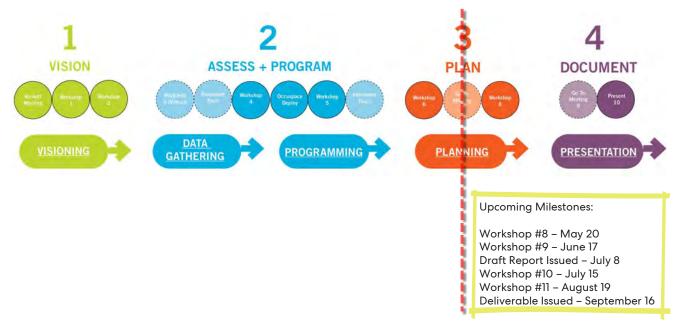
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# **Project Status Updates**

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### Master Plan Process



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**Visual Listening** 



23+ Focus Group Discussions



Current & Future Culture



Program Prioritization



**Student Visioning** 



Brand Aspiration

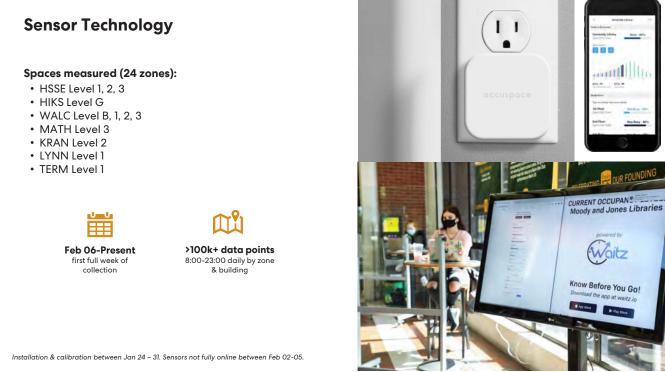
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**Data Collection** 

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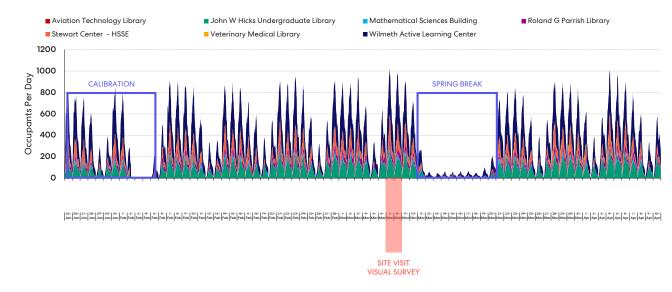
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### Data Received To Date - average occupants by day



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**Data Insights** 

# When does each library 'feel' at capacity ?

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**Site Observations Overview** 



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10

9



### **Site Observations Summary**

Greater utilization in libraries with many features (classrooms, food/beverage).

Students often observed working individually or in pairs of two, even when in a conference room.

Conference rooms do not have consistent technology or reservation protocols.

Vacant classrooms used as study space for one person/group.

Mobile whiteboards used to write and create semi-enclosed "rooms on the go."



#### Adaptions and Adjustments

- Mobile whiteboards used to define space. .
- Desktop computers were often used in conjunction with student laptops.
- Storage modes are inconsistent across floors.

#### **Space Types and Activities**

- Agile spaces equipped with whiteboards and technology/power were well used.
- Individual spaces (carrels) were most sought after. followed by tables with dividers.
- Transient/short-term use of areas outside classrooms
- Inefficient use of large study rooms.

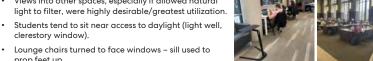


### Liaht and Views

prop feet up.

clerestory window).

Views into other spaces, especially if allowed natural light to filter, were highly desirable/greatest utilization.





#### Acoustics

- Headphones commonly observed in use for noise mitigation
- · Areas around amenities and restrooms were loud and primarily used for socialization
- General understanding of appropriate areas to collaborated vs. focus

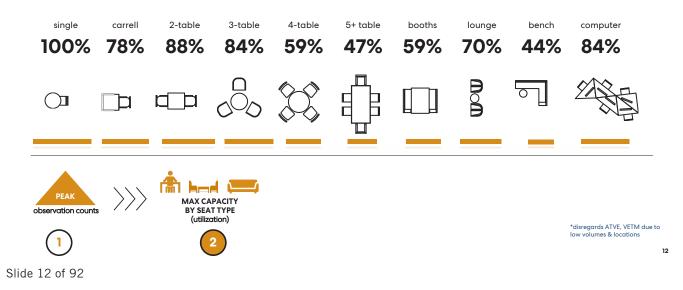
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### **Data Insights**

### When does each library 'feel' at capacity?

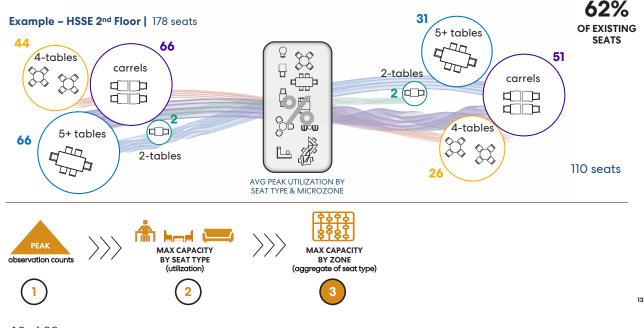
### Each MicroZone has a predominant seat type. This is the average\* utilization by seat type at peak observed usage:





**Data Insights - Questions to Answer** 

When does each library 'feel' at capacity?



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SEAT TYPE EXPERIENCED CAPACITY CAPACITY EXISTING SEATS **Data Insights - Questions to Answer** OS ZONE WALC Lower Level Main 961 98 85 86% WALC First Floor Main 962 100 18 67 67% 61% \_ WALC First Floor North 963 Second Floor North WALC 964 23 18 79% When does each WALC Open Computers North Second Floor Reading Room 966 967 33 30 91% \_ WALC 146 130 89% 25 58 78 library 'feel' at 68% 83% WALC Third Floor North 968 \_ WALC Third Floor East 969 970 48 WALC Third Floor West 58 74% capacity? WALC Open Computers South First Floor Main 999 971 85% 24 21 136 210 65% HSSE First Floor Classroom Second Floor Main 972 973 28 178 13 110 47% HSSE **Comparison between** 62% 64% 59% HSSE Third Floor Main 974 146 93 133 \_ experienced capacity based PRSH Second Floor Main 975 225 PRSH Second Floor Learning Lab 976 40 33 84% on seat types vs. currently ond Floor Corporate Study Second Floor LOES 977 978 61% 77% PRSH 38 23 WALC used numbers 65 50 MATH Third Floor Main 979 107 34 65 60% 68% \_ MATH Third Floor Graduate Study 980 23 ніскя 707 Ground Floor Main 981 456 64% VETM 982 983 First Floor Main 112 64% 72 First Floor Carrels 26 20 78% AVTE First Floor Main 984 34 23 69% NEW EXPERIENCED PEAK MAX CAPACITY MAX CAPACITY **CAPACITY %** BY ZONE (aggregate of seat type) observation counts BY SEAT TYPE (utilization) 3 1 2 Slide 14 of 92

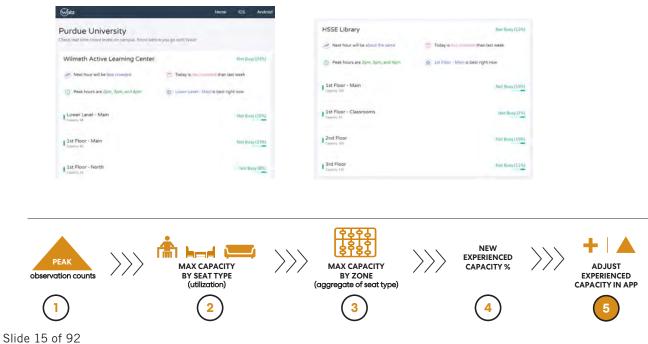
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15

17

### Data Insights - Working with Occuspace



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### Preferred Seating - High vs Low Peaks

		AVTE	HICKS	MATH	PARRISH	HSSE	VETM	WALC	
	single							100%	100%
	carrell	13%	77%	77%	83%	66%	43%	100%	66%
Seating fill at PEAK observed	2-table	25%			25%	113%	20%	100%	57%
•	3-table				83%			81%	82%
utilization by library and seat type:	4-table	21%	38%	100%	29%	41%	22%	79%	47%
	5+ table		55%	49%	56%	27%		76%	53%
	bench		38%		51%				44%
Maximum observed utilization –	booths		54%		58%			60%	57%
	computer		51%	120%	45%	91%		94%	80%
less choice	lounge	33%	31%	33%		22%	29%	92%	40%
	Average	23%	49%	76%	54%	60%	28%	87%	

		AVTE	HICKS	MATH	PARRISH	HSSE	VETM	WALC	
	single							100%	100%
	carrell	6%	28%	44%	44%	24%	14%	33%	28%
Seating fill at OFF PEAK observed	2-table	6%				44%	20%	52%	31%
	3-table				33%			18%	26%
utilization by library and seat type:	4-table	13%	18%	4%	15%	11%	16%	24%	14%
	5+ table		33%	11%	20%	11%		21%	<b>19%</b>
	bench		13%		28%				20%
When there was an abundance of	booths		29%		33%			38%	33%
choice	computer		44%	32%	23%	26%		33%	32%
(usually, past 6pm)	lounge	8%	1%			4%	3%	21%	8%
(usually, past opin)	Average	8%	23%	23%	28%	20%	13%	38%	

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### Utilization by Library- average hourly fill\*

\*based on revised experienced capacities 100% 90% 80% 70% 60% Percent Fill 50% 40% 30% 20% 10% 0% 15 8 9 10 11 12 13 14 16 17 18 19 20 21 22 23 Hour of Day Aviation Technology Library John W Hicks Undergraduate Library Mathematical Sciences Building Roland G Parrish Library Stewart Center - HSSE Veterinary Medical Library Wilmeth Active Learning Center

Monday-Friday, discarding calibration and spring break (Feb 06 - April 10)

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# **Precedent Tour Takeaways**

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### **University of Chicago**

Partnership with arts, humanities and library Provide spaces for no tech to high tech engagement Brand and signage part of Crerar experience Library owned space Café at entry Variety of spaces and seating choices







First Floor Café Space Tech Bar Studio Writable Surfaces Team Rooms One Button Studio Ample Power & WiFi Pop-Up Exhibits to showcase artifacts Self-checkout modifies staffing need

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Space divided by behavior Hospitality focus (from food, coat rooms to break out spaces) Interactive white boards throughout, moveable Camera can recognize emotion Tech support high Furniture with high backs is desired Unassigned seating, check in at front desk or on app Desks are height adjustable Maker space – meant to be messy Reservation system for all conference rooms





**EY Wavespace** 

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Brand reinforced through design and sponsorship Strong beverage and food component Central hub Zoom Suite Phone Rooms





**Aspen Dental** 

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23





Northwestern University The Garage

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Entrepreneurial space, interdisciplinary Not associated with any schools Dry erase on tables and walls Modular furniture to create a 'zone' Students like backs to walls Soften up the space AR/VR media Left brain / right brain conf rooms Self-guided space Pods with mix of furniture creates safe zone Peer to peer is most effective

# **Project Vision**

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# **DRAFT PROJECT VISION STATEMENT**

The future Purdue Libraries will be the **bridge** between individual scholars and the academic community, the campus and the world. It will **connect** disciplines and **integrate resources** across the university so all can engage in the richness of the Purdue experience. The Libraries will be a consistently recognized **partner for experimentation, collaboration, and digital learning**. It will be a **pathway between knowledge acquisition and its application in the service of society**.

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# **DRAFT PROJECT VISION STATEMENT**

### SERVICE DRIVERS

- 1. Welcoming to all
- 2. THE HUB for knowledge and scholarship sharing
- 3. THE integrated Center for Digital Scholarship
- 4. Host spaces for virtual and experimental learning
- 5. Seamlessly part of the "total" Purdue student experience
- 6. Resource-rich place to connect and collaborate
- 7. Promote trans-disciplinary research and learning
- 8. Unified alignment of purpose
- 9. Be more visible

## **SPATIAL ATTRIBUTES**

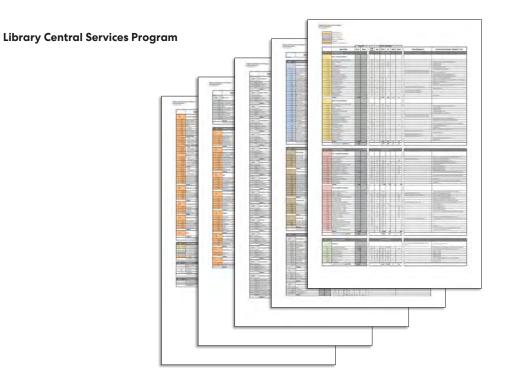
- 1. Visible, intuitive, accessible, inclusive: validate lived experiences
- 2. Showcase creation, scholarship, institutional legacy, and special collections
- 3. Make technology and resources seamlessly present
- 4. Integrate virtual learning seats and experimental teaching lab
- 5. Integrate brand across physical and digital spaces
- 6. Blur boundaries between formal learning and social learning
- 7. Support learning across academic and co-curricular spaces
- 8. Co-locate staff with serendipitous collaboration spaces
- 9. Consistent brand expression and physical transparency

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# Programming

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#### **Program Content Summary**

#### **SF** Comparison

Existing HSSE & HIKS nsf: 161,170 sf

Draft Program nsf: 208,390 sf

#### Seating

Existing Seat Count: 2,836 seats

Seating Projections: Current Benchmark method suggests need for: 2,414 additional seats

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#### **Program Content Summary**

#### **Enhanced Programs**

- Study Seats (quantity and variety)
- Quiet/Silent Reading Room .
- Themed Browsing Collections
- Archives / Special Collections: ٠
  - 2X storage capacity
  - cold storage
  - group room
  - conservation lab
- Maker Space

#### **New Programs**

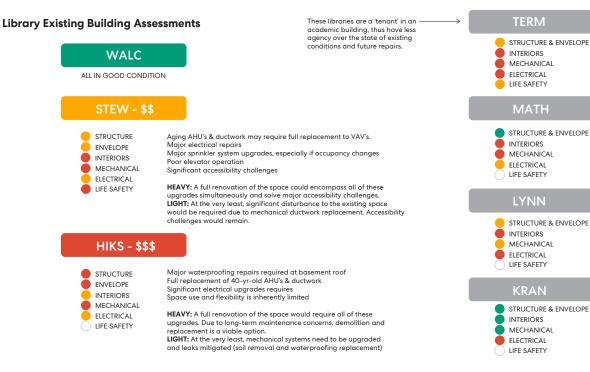
- Virtual Learning Hubs
- Center for Digital Scholarship
- Knowledge Gallery •
- Drop-In Services
- Express Computing
- Self-Check
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- Digital Signage
- Seminar Rooms (2)
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- . Special Projects Rooms (5) •
  - Ċafé
- Non-Traditional Students Lounge ٠
- . Graduate Commons

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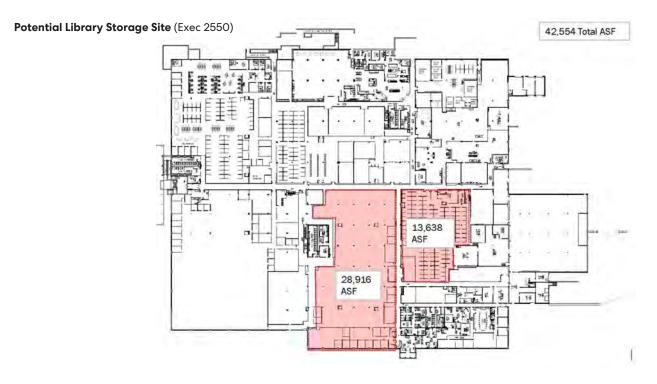
# Physical Building Conditions Assessment

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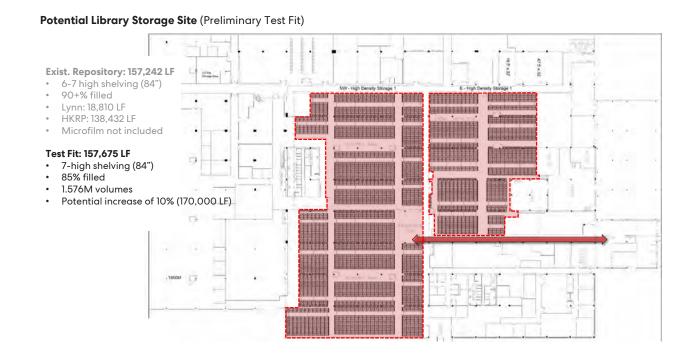


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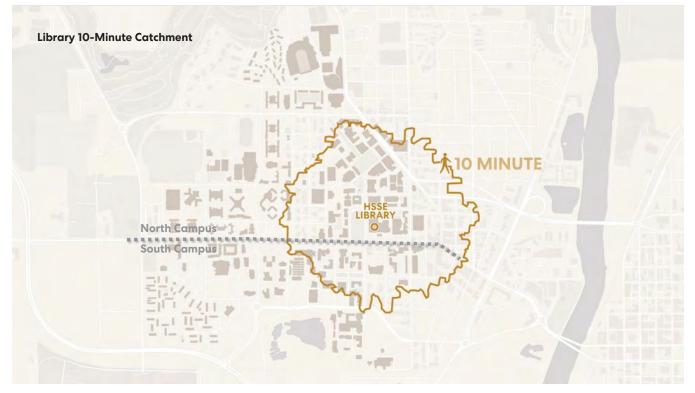


# **Scenario Options & Evaluation Criteria**

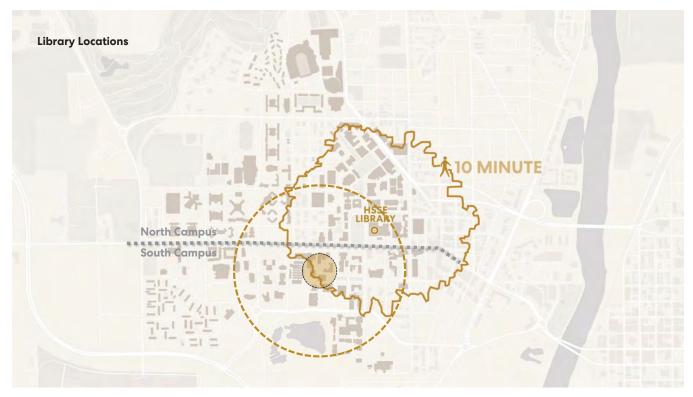
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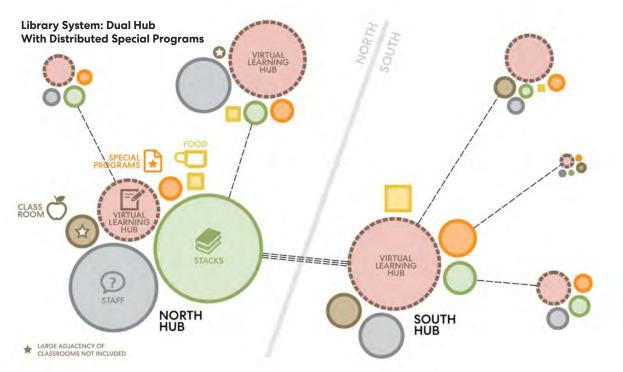


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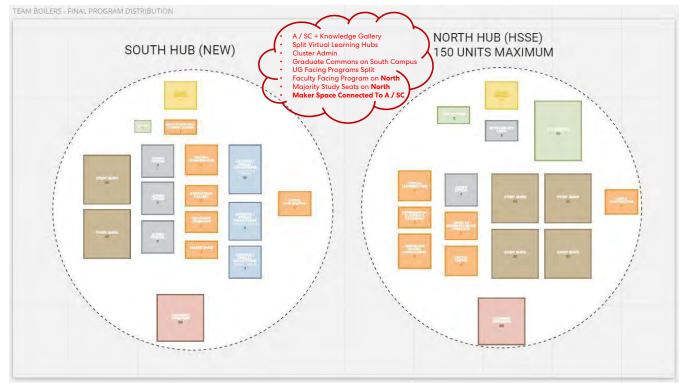


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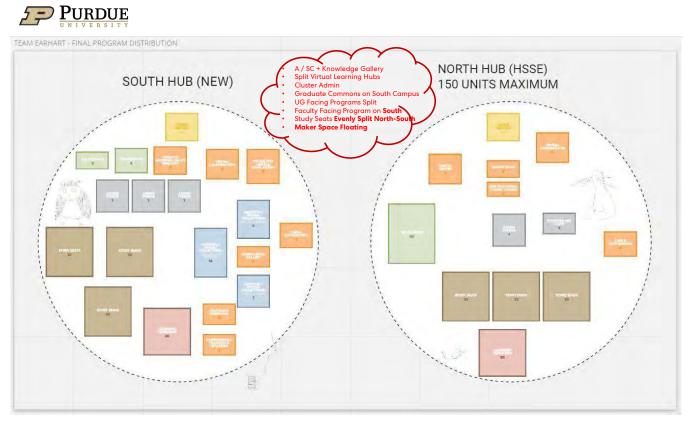




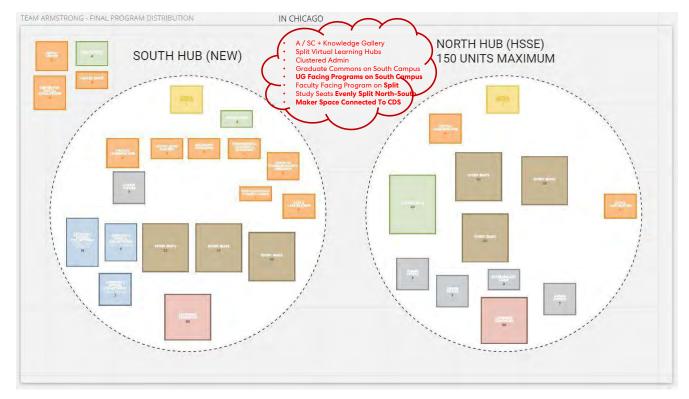
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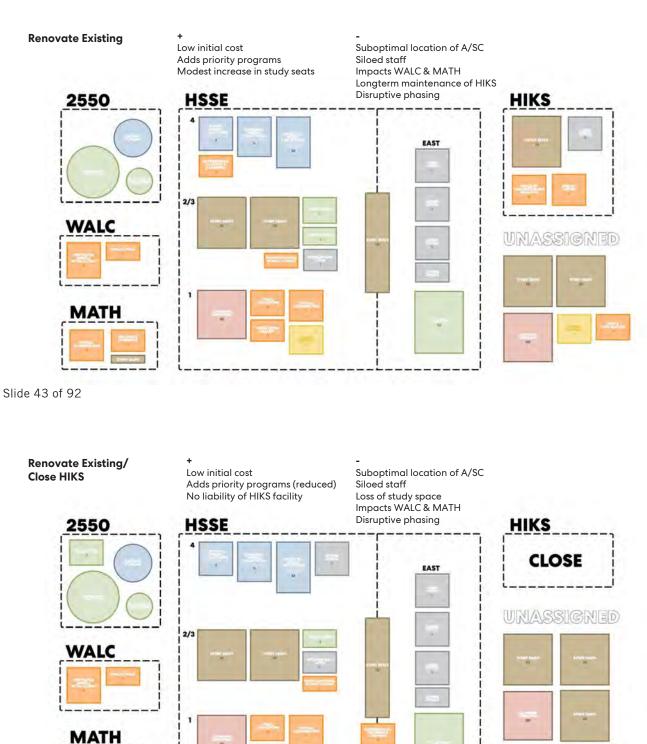


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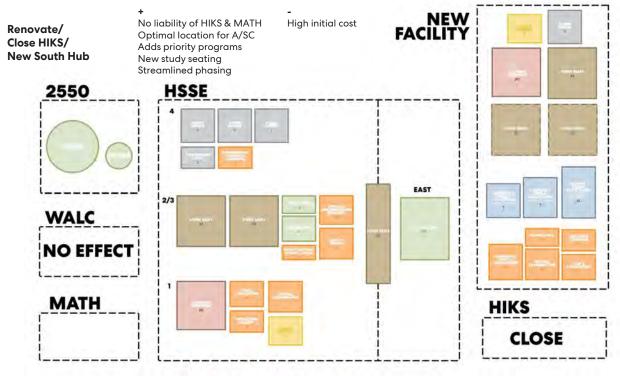
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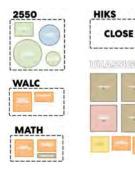
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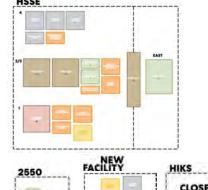
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Renovate Existing/ Close HIKS





#### Renovate Existing/Close HIKS/New South Hub HSSE



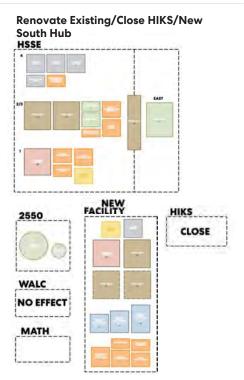










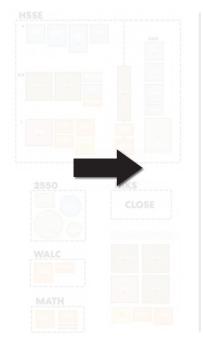


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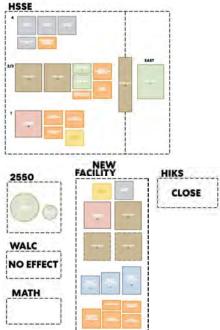


**Renovate Existing** 

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Renovate Existing/Close HIKS/ New South Hub







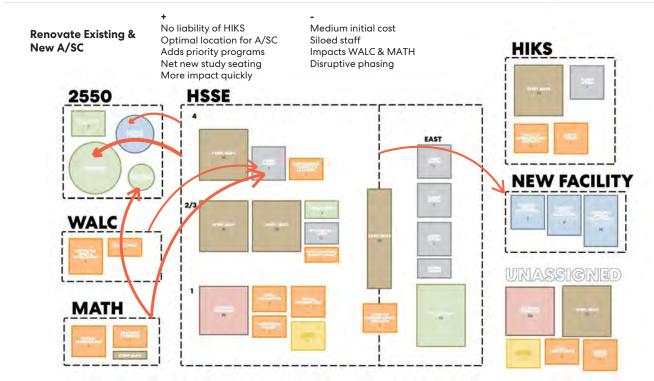
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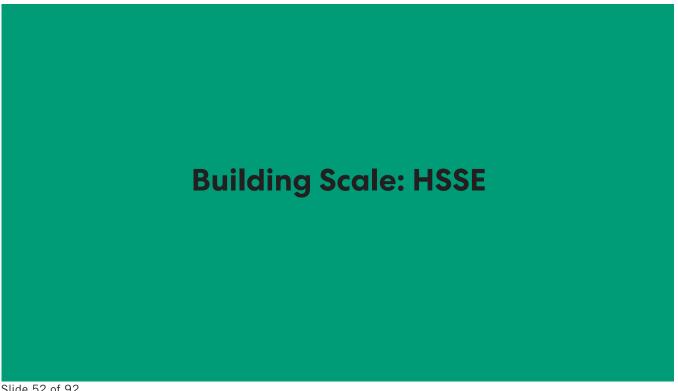
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MATH



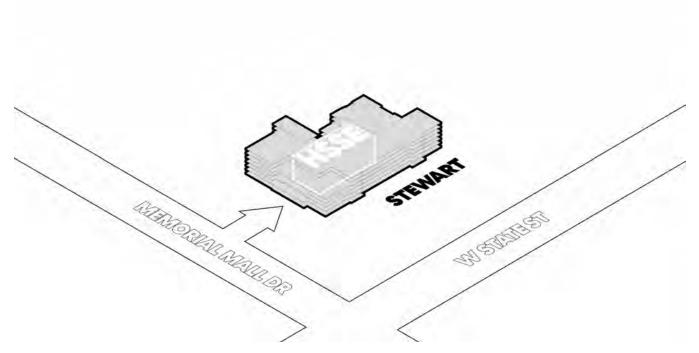


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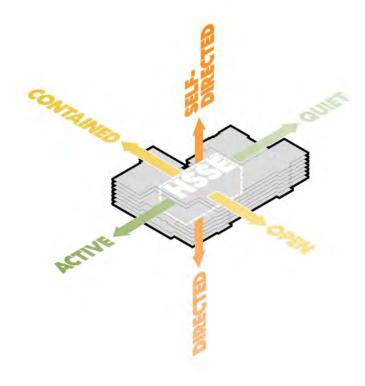


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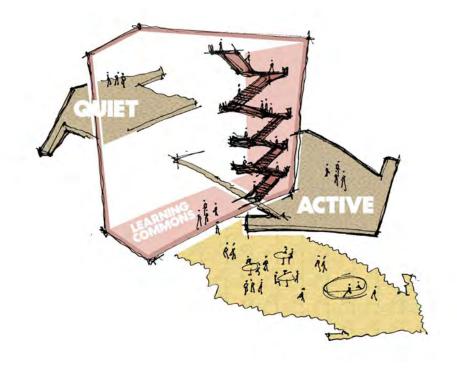


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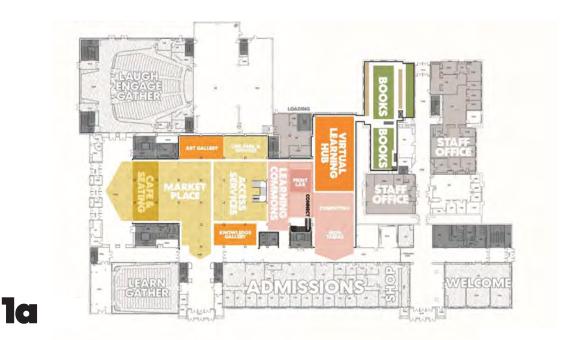


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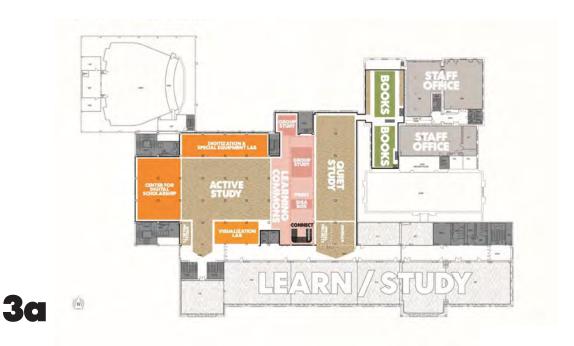


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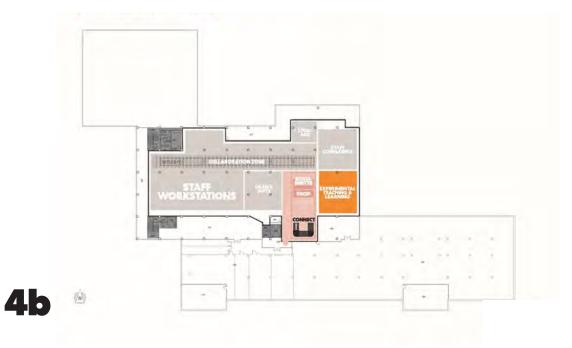


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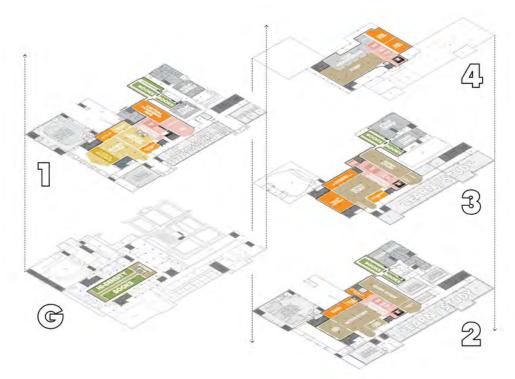


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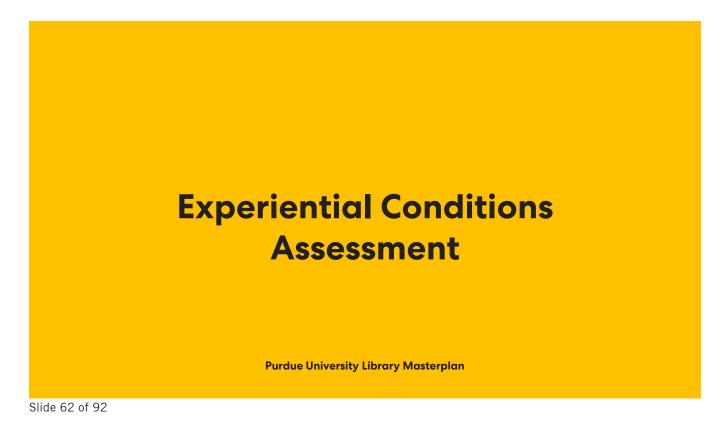


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#### Areas of Observation

Hicks Undergraduate Library Humanities, Social Sciences and Education Library Parrish Library of Management and Economics Library of Engineering and Science Veterinary Medical Library Mathematical Sciences Library Aviation and Transportation Technology Library Archives and Special Collections

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#### **Brand Observation Summary**

#### **Physical Space**

Inconsistent Library name identification across the system. Each Library is unique in its design and features. Not all Libraries appear welcoming. Minimal inclusion of story-telling within the Libraries. Missing display space for Special Collections or other features. Design feature at desks integrated in many libraries. Inconsistent wayfinding and signage. Ad hoc postings cause visual clutter.

#### **Digital Space**

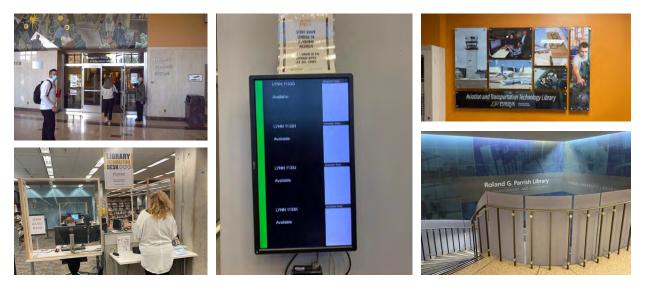
Purdue brand leads for Libraries. Navigation to individual libraries is sometimes difficult/confusing. Landing pages are text heavy. Physical Library imagery is small and often of poor quality. Inconsistent categories across various libraries. Archives & Special Collections has strongest visual "personality". "Real-time readership" feature engaging and dynamic. Most libraries highlight availability of study & specialty spaces.

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## **On-site Observations**

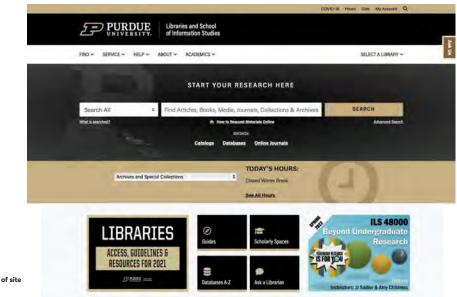
Purdue University Libraries



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# **Online Observations**

Purdue University Libraries



Screen capture of site

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# **Online Observations**

Purdue University Libraries



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Information Desk (right)

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## **On-Site Observations**

HSSE Library



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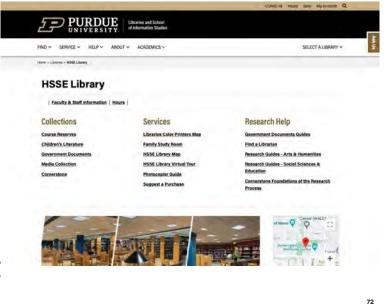
## **Online Observations**

HSSE Library

"The Humanities, Social Sciences and Education Library (HSSE), located in Stewart Center, houses a large print collection that supports scholarly research and includes nonfiction, classic literature, children's literature, government documents and periodicals. The main floor features over 70 workstations, as well as printers, photocopier/scanners, and collaborative or individual study areas. Quiet study areas are also available on the remaining two floors. Research assistance is available at the service desk and by appointment. For more information about the Stewart Mural located outside the library entrance, visit <u>The Spirit of the Land Grant</u> <u>College webpage</u>."

https://www.lib.purdue.edu/libraries/hsse

Screen capture of site



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#### **On-site Observations** Hicks Undergraduate Library

↑ Reception

Office of Undergraduate Research



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← Donor Signage 73

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Entry Signage

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### **On-site Observations**

Parrish Library of Management & Economics



Contributors

Room Signage

aborative Staff O







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Room Signage

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# **Online Observations**

Library of Engineering and Science



Library of Engineering and Science Norgistir In focus on providing ungaralled access to digital resources, its source of the generation of Science holds approximately 30,000 thoughtfully unrelid prior cultures, consolidating the holding and services of sk formerly apparent librarius al into one easily accessible location.

The WHLC is a studeed-cendered facility with a variety of resources, study resis, and versatile spaces repert to all students on campus. The LoCE include the Data Visualization Experience Lab of Parker (D-VELOP) in D-VELOP. Indents can use the visualization tab, "VL" IMI, 3 O printers, and/or spoote existence to help them sum their data into incodedge through insul/patient information. The walls of the WALC are rich with reproductions of historic photographs of the Purdue University campus. Artifacts and photographs from the working 1924 Power and Heating Plant can be found throughout the building, memorializing the rich legacy of this central site on the Purdue campus. A smartphone tour enhances the exhibits, by providing information and interactive activities designed to make a visitor's experience an extension of the WALC active-learning philosophy.

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# **On-site Observations**

Archives and Special Collections



**Collections Storage** 

->



Archives Entry

→

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On-site Observations Archives and Special Collections



Signage

**Collections Storage** 



Specialty Equipment

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# **Audiences**

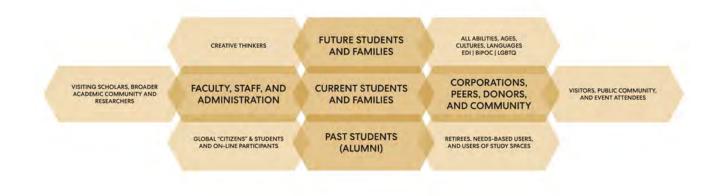
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Audience Types – Purdue Libraries	
All Students	Visitors & Visiting Scholars
All Faculty	Prospective Students
Staff	Academic Community
Public Community Members	Researchers
Alumni	Student Families
Donors	EDI   BIPOC   LGBTQ
Retirees	Creative Thinkers
Global "Citizens" & Students	Needs-Based Users
On-Line Participants	Users of Study Spaces
Event Attendees	All Abilities, Ages, Cultures, Languages

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#### **Audience Types - Purdue Libraries**



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#### Brand Recap – Purdue Librariess

Welcoming service organization. Equitable access to information & resources. Teach crucial information skills. Furthering the field of Information Science through research. Distributed "hodge-podge" of resources & services. We have study spaces; WE ARE MORE THAN BOOKS. Striving to be better understood by all. Nice. Helpful. Friendly. Welcoming. Willing and Ready to Assist. Open to new ideas. Serve the information needs of the Purdue community.

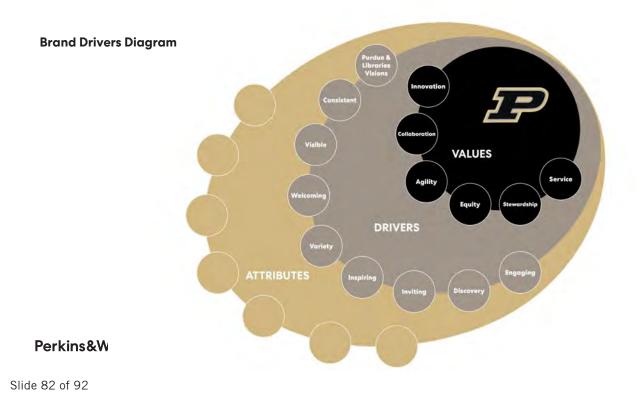
#### Future

Today

An Information Service Hub for Purdue...so much more than books! Cohesive. Complementary. Inclusive. Discover. Create. Grow. Innovate. Let us inspire you. Advancing leadership and the profession through critical research. Portfolio of resources, experiences and experimentation for all. Dynamic multi-space environment with great resources. Responsive services and staff at the academic forefront. Expert level instruction and personalized guidance.

Connected within our organization, the university, the community, and the world.

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# **High Level Experience Definition**

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#### **Library Experience**

Inspire Show Demonstrate Excite Energize

# Engage

Collaborate Connect Community Partner Share

#### Study Learn Concentrate Seek

#### Innovate Collaborate

Ideate

Make

Experiment

# Discover Explore

Learn Authenticate

# Support

Help Information Print Technology



F

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# **Story-Telling**

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#### **Stories**

- Our History | Our Archives | Our Collections A Place for Knowledge Creation Authentic Source of Information Patents, Firsts, Innovations at Purdue Your Experience Begins at Purdue Libraries Research & Explore Study, Learn, Collaborate, Innovate, Celebrate Physical Places & Spaces Information Literacy
- Library Locations & Specializations Our Services, Resources & Tools...More than Books! Personal-Touch Assistance...Let Us Help You! At Purdue, it's Cool to be Smart The Digital Experience We are ONE Library System Our Expanded Network Our Rich Database Vital Partnerships

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#### **Story-Telling**



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#### Strategic Opportunities Matrix

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# **Open Discussion**

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# Workshop 8: May 10, 2022

#### **Meeting Details**

	5.10.2022	Project Name:	Purdue University Libraries Master Plan
Meeting Time:	8:00 AM	Project Number:	021661.000
Meeting Location:	Via Teams	Attendees:	Jessica Figenholtz, Derek Jones, Eileen Jones, Florent Mettetal, Dorothy, Beth, Rebecca, Drew, Allison, Mark, Scott
Discussion			
ITEM NO.	DESCRIPTION		RESPONSIBILITY
001	Workshop #8		Perkins + Will
	<b>.</b> ,	top 5 of library usage, fo ct shelving in HSSE; CDS cument (ASF vs GSF). ts, not as much as acade n/Drew for south campu ard to get dollar figure fi ort is another one, and for rgument to validate sco al fund into the building, position of 4th floor. Do eep as is? tionship with classrooms da afterwards and on T r; PW to share notes wit V, also HSSE classrooms ation; BE – review rende	should stay in HSSE; SF emic support. s investment. rom them. Best to orestry. pe, is this the right we look at it as to libraries <b>Teams; Need direction</b> <b>h Shannon on the</b> study/analysis to push erings; PW, ASG,

**Please note:** The foregoing constitutes our understanding of matters discussed and conclusions reached. Other participants are requested to review these items and advise the originator in writing of any errors or omissions.



#### **PRESENTATION SLIDES**



Purdue University Library Master Plan: Workshop #8 5/10/2022

Perkins&Will

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# Agenda

Master Plan Status & Schedule Update

Workshop #7 Recap

**Data Collection Update** 

**Programming Summary** 

**Planning Scenario Refinement** 

**Experiential Mapping Assessment** 

Wrap Up & Next Steps



→ WALC

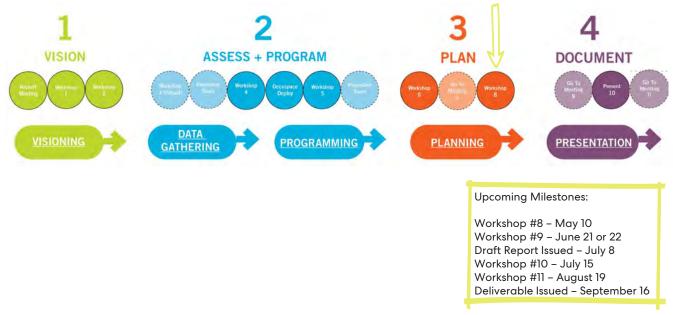
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# **Project Status Updates**

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#### Master Plan Process



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## Workshop # 7 Recap

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The future Purdue Libraries will be the **bridge** between individual scholars and the academic community, the campus and the world. It will **connect** disciplines and **integrate resources** across the university so all can engage in the richness of the Purdue experience. The Libraries will be a consistently recognized **partner for experimentation, collaboration, and digital learning**. It will be a **pathway between knowledge acquisition and its application in the service of society**.

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#### Sense of Belonging at Purdue

"Belonging is a construct that has long been a focus for many units on Purdue's campus—this interest is not new."

	West Lafayette (as of October 2021).
Study	When
Orientations-	Every entering student is measured before and
Student Success Programs	after orientation [(V)STAR] and after Boiler Gold Rush (BGR).
First Year Engineering (FYE)-	Beginning of every term every FYE students are
Dr. Kerri Douglas (ENGR)	surveyed on this and other constructs.
Student Experiences at Research	A census activity; in the even numbered spring
Universities (SERU)-	terms undergraduates are surveyed and in the
IDA+A	odd numbered spring terms graduate students are surveyed.
Organizational Leadership-	Once per academic year, typically in the fall
Dr. Stephen Elliot (PPI)	term, all students enrolled in this program of study are surveyed.
Student Life- Kevin Maurer	Approximately six weeks after the start of each
	term, first year and second year students are measured on this construct.
Steps to Leaps (S2L) – Dr. Louis	Students that attend S2L programming are
Tav	surveyed on this topic.

- Explore changes in sense of belonging over time;
- **Design** interventions to improve students' sense of belonging;
- Identify if or how a certain intervention relates to self-reported changes in sense of belonging;
- **Describe** how sense of belonging relates to academic success at Purdue University.

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#### Open comments, questions, and considerations

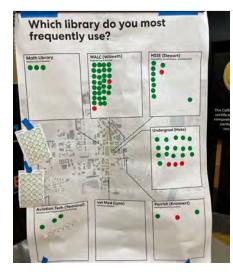
Campus Planning	University Library Committee	Executive Committee	Core Group
<ul> <li>Articulate site criteria for possible HUB locations</li> <li>Include pro/con statements for site options</li> <li>Need to give leadership a visual of what the vision could look like</li> <li>Make a declaration on HIKS</li> <li>Focus on entire library portfolio</li> <li>Update zipper diagram with all recent investments on campus – correlation to support student success</li> <li>How to best position Archives and Special Collections</li> <li>Diagram how HSSE can be compelling and transformative</li> </ul>	<ul> <li>Did this process poll the right students? Not sure within the library</li> <li>WALC acoustics are not ideal, hard to conduct group work</li> <li>Libraries need to have the appropriate acoustics, privacy and safety</li> <li>Role of library for international students</li> <li>How to keep character of each library, but be unified as a system</li> </ul>	<ul> <li>Student space - sense of belonging</li> <li>Is inclusive co-creation appropriate?</li> <li>Libraries connect people with people</li> <li>Sharing the story and allow students to be a part of the story</li> <li>Value of place and value of campus - strengthen</li> <li>Could the library be an extension to the virtual learning component, "a partner of experiential learning"</li> <li>Push the library brand forward with alignment of Purdue brand, tie to artifacts</li> </ul>	<ul> <li>How can the Occuspace data be used to inform future changes within the library?</li> <li>Program: experiential vs experimental</li> <li>Discussion around 2550 and off- site storage, advantages</li> <li>Physical and digital exhibit opportunities connected to A/SC and general connections</li> <li>If HSSE stays, how do we make it transformational?</li> <li>Elevator access to all floors within HSSE</li> <li>Amplify dynamic quality of storytelling on web presence</li> </ul>

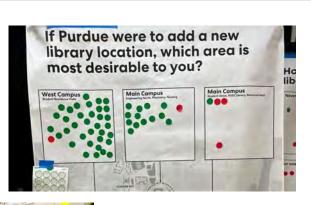
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Student Intercept Feedback

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#### Summary of Feedback

	1. Which library do you most frequently use?												
	Math	WALC	HSSE	Hicks	AvTec	Vet Med	Parrish	Total					
STEW	7	58	74	49	4	1	21	214					
WALC	3	102	40	44	1	1	8	199					
LILY	5	27	21	24			2	79					
Co-Rec	3	31	10	19	4		3	70					
Total	18	218	145	136	9	2	34	562					

			2. What	determine	es which l	ibrary you v	isit?		
	Location & Convenie nce	Quiet Study Space	Comfy Seating	Hang with friends	Technol ogy & Printing	Collaborat ive space	Availability of Seating	Other	Total
STEW	88	63	27	2	17	11	51	2	261
WALC	66	50	14	4	15	16	44	10	219
LILY	36	17	3		11	8	16	6	97
Co-Rec									0
Total	190	130	44	6	43	35	111	18	577

Location & Quiet Study Space

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Perkins&Will



#### Summary of Feedback

3. If Purdue were to add a new library location, which area is most desirable to you?

	West Campus	Main Campus	Main Campus	Discover y Park	South Campus	South Campus	Total
	(Res. Halls)	(Eng/Pha rm/Nursi ng)	· ·		(Ag)	(Alumni Center & Theater)	
STEW	111	54	30	22	22	37	276
WALC	72	72	28	12	15	15	214
LILY	13	16	3	14	30	6	82
Co-Rec	36	14	4	9	5	11	79
Total	232	156	65	57	72	69	651

36% desire Hub in West Campus (near res halls)

	4. How often do you visit a library?											
	Never/Rar ely	1x per month	1x per week	2x per week	3x per week	4-5x per week	Total					
STEW	13	26	27	16	49	101	232					
WALC	28	18	22	25	33	58	184					
LILY	9	12	11	10	13	18	73					
Co-Rec	16	5	9	13	13	13	69					
Total	66	61	69	64	108	190	558					

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## Layers of Analysis

### OCCUPANCY METRICS

Is the use regular throughout the day ?

Are there high volumes at specific times?

Are high volumes a regular occurrence?

#### **STEADINESS**

AVERAGE

#### **STRESS POINTS**

PEAKS

### REPETITION

FREQUENCY

#### 2 CLASSROOM IMPACT ON LIBRARIES

How are scheduled classes impacting the use of the library?

### **3** LIBRARY USERS

Who are the libraries catering to?

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## **Overall Trends**

#### Average by Hour -Aviation Technology Library - - John W Hicks Undergraduate Library Mathematical Sciences Building 120% 100% 80% LOW USE LIBRARIES 60% AVTECH 40% VETMED PARRISH 20% 0% 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Trends depict "experienced capacity"

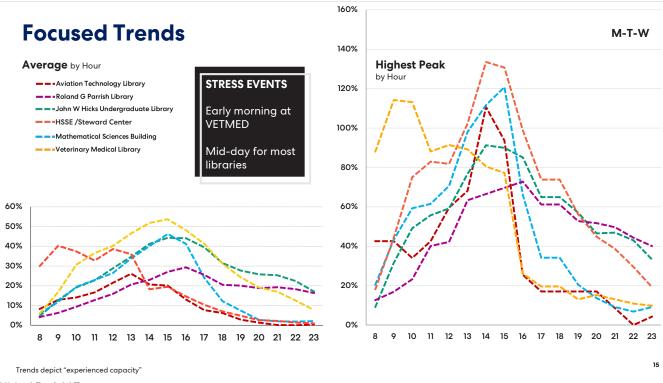
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MONDAY-FRIDAY

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Peak vs. Average

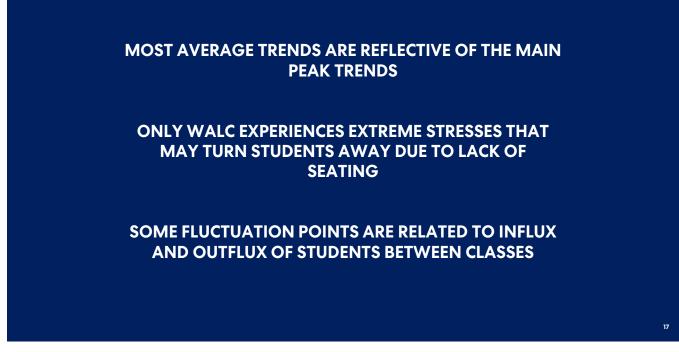






AVTECH HICKS HSSE MATH 80% 601 70% 703 50% 60% 609 503 40% 50% 40% 40% 107 30% 30% 30% 20% 205 20% 20% 10% 0% 9 10 11 12 13 14 15 16 17 18 19 20 0% 8 20 21 22 23 18 19 20 21 22 23 8 12 13 14 15 16 17 450% PARRISH VETM WALC 100% 400% 90% 350% 80 80% 300% 70% 70% 609 60% 250% 509 50% 200% 405 40% 150% 30% 309 100% 20% 201 101 10% 50% 0% 0% 0% 12 13 17 18 10 20 21 22 23 12 16 10 20 22 10 11 14 15 16 21 22 23 16 11 12 13 14 20 10 15 17 18 19 Trends depict "experienced capacity"



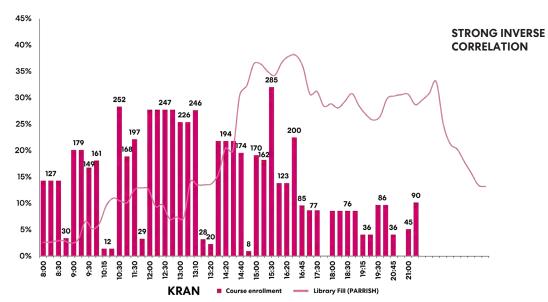


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STUDY DAY TUESDAY

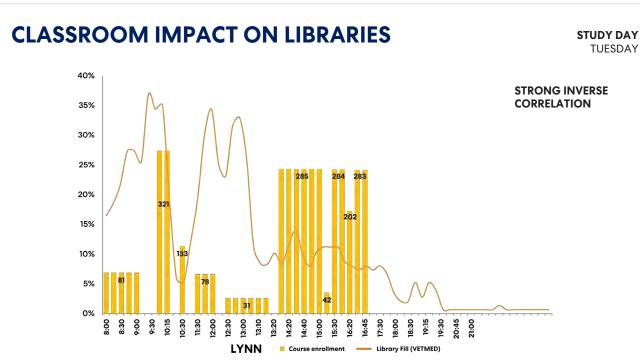
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Library fill depict "experienced capacity"

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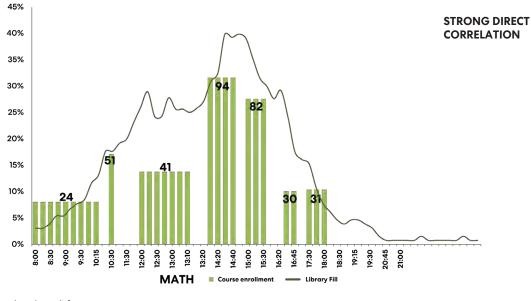
Library fill depict "experienced capacity"

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## **CLASSROOM IMPACT ON LIBRARIES**

STUDY DAY TUESDAY

19



Library fill depict "experienced capacity"

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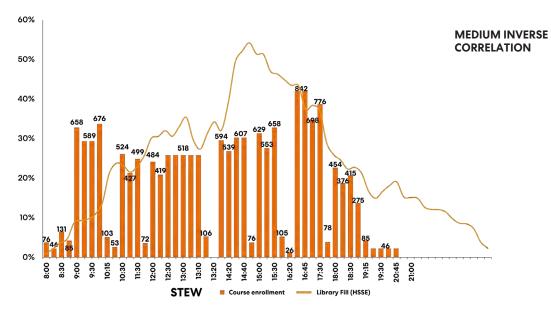
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STUDY DAY TUESDAY

21

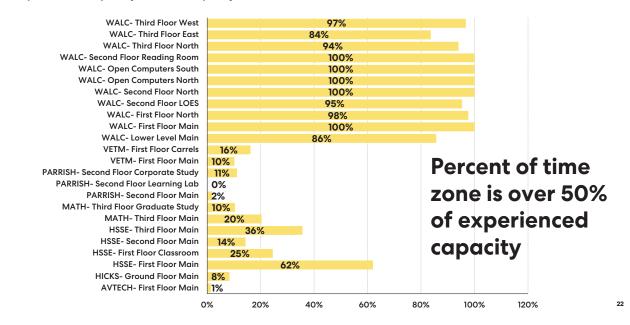


Library fill depict "experienced capacity"

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### **OCCUPANCY FREQUENCY**

Which spaces are frequently over half capacity?



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# WHO USES THE LIBRARIES ?

Top Colleges by Library

	AVTE	HIKS	HSSE	MATH	PARRISH	VETMED	WALC
College of Agriculture	1.9%	8.9%	9.3%	7.0%	7.6%	10.0%	8.4%
College of Education		1.4%	1.4%	2.3%	0.5%		1.8%
College of Health & Human Sci	2.5%	11.1%	11.4%	10. <mark>3%</mark>	<mark>9.</mark> 7%	5.5%	10.6%
College of Liberal Arts	0.5%	12.6%	13.4%	10.2%	7.9%	2.5%	11.9%
College of Pharmacy	0.5%	0.6%	0.6%	1.1%	0.9%	0.3%	0.5%
College of Science	1.4%	13.5%	13.6%	<b>19.5%</b>	10.8%	4.5%	13.3%
Construction Engineering Mgmt		0.5%	0.4%	0.4%	0.2%		0.4%
Div of Environ & Ecol Engr		0.5%	0.5%	0.3%	0.7%		0.4%
Doctor of Pharmacy	0.2%	0.6%	0.6%	0.7%	1.0%		0.5%
Exploratory Studies	0.2%	0.6%	0.6%	1.0%	1.0%	0.7%	0.5%
First Year Engineering	0.9%	0.6%	0.6%	1.3%	1.0%	1.6%	0.5%
Graduate Professional		0.0%	0.0%	0.0%		0.2%	0.0%
Graduate School	<b>31.3%</b>	18.8%	19.6%	16.8%	18.2%	38.4%	21.5%
Polytechnic Institute	42.8%	12.3%	10.8%	<b>10.</b> 5%	<mark>9.</mark> 5%	3.1%	12.6%
Pre-Pharmacy		0.1%	0.0%	0.0%	0.0%	0.5%	0.1%
School of Aero and Astro Engr	1.9%	0.6%	0.6%	1.1%	0.8%		0.5%
School of Agr and Bio Engr		1.2%	1.2%	1.0%	0.9%	1.2%	1.3%
School of Biomedical Engr		0.5%	0.5%	0.8%	0.8%	0.7%	0.5%
School of Chemical Engineering	0.7%	0.6%	0.5%	0.9%	0.9%	0.8%	0.5%
School of Civil Engineering	0.4%	0.6%	0.6%	0.8%	0.9%	0.3%	0.5%
School of Elec & Computer Engr	1.2%	1.2%	1.1%	2.0%	2.4%	0.5%	1.0%
School of Industrial Engr	0.4%	0.6%	0.6%	1.1%	1.2%	0.8%	0.5%
School of InterdiscipInry Engr		0.5%	0.6%	0.5%	0.2%		0.7%
School of Management	10.6%	9.6%	9.2%	<b>8</b> .1%	20.3%	3.1%	8.9%
School of Materials Engr		0.5%	0.5%	0.6%	0.7%		0.4%
School of Mechanical Engr	0.4%	0.6%	0.6%	1.0%	1.2%	0.6%	0.5%
School of Nuclear Engineering		0.4%	0.3%	0.4%	0.0%	0.1%	0.4%
Temporary	2.3%	0.3%	0.4%	0.4%	0.2%	0.3%	0.6%
Veterinary Medicine		0.4%	0.3%	0.0%	0.4%	10.6%	0.3%
Veterinary Technology		0.3%	0.1%	0.0%		12.7%	0.2%

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Based on 2017-2019 WIFI Data

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## WHO USES THE LIBRARIES ?

#### WALC HIKS HSSE EVERYONE - NO MAJOR OVER 1.5% of TOTAL EVERYONE - NO MAJOR OVER EVERYONE - NO MAJOR OVER 1% of TOTAL Economics Industrial Engineering Mechanical Engineering Computer Science Mechanical Engineering Computer Science Industrial Engineering **Computer Science** Computer science Economics Civil Engineering Mechanical Engineering Industrial Engineering 2 3 AVTE 3 Economics Civil Engineering Civil Engineering "SPECIALIZED" LIBRARY Prof Flight Technology Aeronautic Engr Technology Aviation Technology 2 MATH PARRISH VETM 3. 4. 5. Technology Aviation Management NOT ONLY MANAGEMENT "SPECIALIZED" LIBRARY PRETTY EVENLY SPLIT Veterinary Medicine Veterinary Clinical Sci Medical Education Veterinary Technology Veterinary Technician Mathematics Computer Science Mechanical Engineering Industrial Engineering Economics Management Mechanical Engineering 2. 3. 4. 5. 2 2. 3. 4. 5. 4. 5. Industrial Engineering Statistics Finance

Based on 2017-2019 WIFI Data

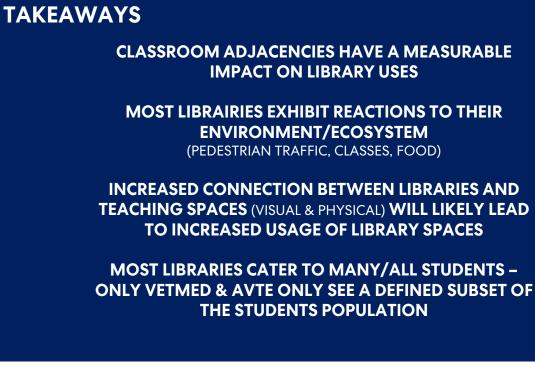
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Top 5 Majors

24



25



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**Programming Summary** 

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#### NV5 Technology Vision – Areas for Further Study



#### IT/AV Infrastructure, Interconnectivity, AV

- Minimize 'hops' between switches
- Employ pervasive wireless
   connectivity
   Develop intelligent
- Develop intelligent buildings/IoT strategy
  Continue Occuspace
- analysis
- Develop room scheduling system and signage

#### Slide 27 of 117



#### Conference Rooms, Study Rooms

- Scale technology for study modes (alone, along or together)
- Strategically equip rooms with web conferencing capabilities, install futureproof infrastructure
- Allow for analog, non-tech areas such as whiteboards



#### Learning Commons

- Plan for shared workstations to supplement BYOD (bring your own device)
- Provide acoustically isolated "meeting/class" pods for virtual and hybrid courses
- Create quiet zones



#### **Specialized Spaces**

- Makerspaces
- Digital Media Spaces
- Video & Audio Studios
  Virtual/AR/Metaverse Spaces
- Esports/Gaming Areas
  "One Touch" and
- Lightboard Studios
- Higher fit/finish "Zoom Rooms"

#### NV5 Technology Vision - Areas for Further Study



## Communications & Branding

- Develop a digital signage strategy for equipment and content creation Allow for interfaces between social media and physical domain, "Tweet Boards" to allow for ownership of space
- Expand Library app to enable wayfinding, discovery, events, etc.

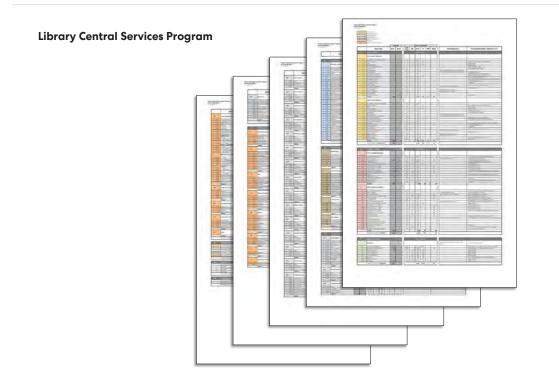


#### Staff Development

- Provide staff training and consider new hires for support of technology
- Provide 'black box classroom' for faculty to
- experiment with technology Provide tech support areas

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#### Enrollment

		UG: FTE	UG FTE	GRAD FTE	TOTAL FTE	GROWTH RATE
	Fall 2016	29,434.4	1,439.7	7,269.5	38,143.6	
DUT	Fall 2017	30,330.7	1,412.5	7,319.3	39,062.5	2.41%
ARS (	Fall 2018	31,957.4	1,433.8	7,467.0	40,858.1	4.60%
E	Fall 2019	32,854.2	1,455.6	7,568.7	41,878.5	2.50%
>	Fall 2020	33,959.1	1,476.0	7,197.7	42,632.8	1,80%
	Fall 2021	36,270.9	1,477.5	8,241,9	45,990.3	7,88%
Proj	ection (Purdue Provid	ted)				
	2031-Steady	37,101		9,445	46,546	
	2031-Growth	40,159		9,445	49,604	
	2031-Hig Growth	42,543		9,445	51,988	

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#### **Seat Count Projections**

BASED	BENCHMARKING METHOD (NEW)
	BASED

Institution		Student FTE	Library Seats	% of students	Gate Counts	Visit/ Seat	Visit/ Student
Ohio State University		61,391	4,333	7.1%	4,103,455	947	67
North Carolina State University		34,767	5,027	14.5%	2,464,590	490	71
Iowa State University		33,391	3,330	10.0%	1,916,666	576	57
Universtiy of NC, Chapel Hill		29,877	5,705	19.1%	2,667,100	468	89
Western Michigan State University		21,470	2,551	11.9%	597,958	234	28
Georgia Tech University		19,432	2,360	12.1%	318,614	135	16
Miami University	I	17,697	1,640	9.3%	382,474	233	22
	Average	31,146	3,564	12.0%	1,778,694	440	50
Purdue Library (2018-19)	6.8%	41,873	2,836				
PURDUE-Steady	11.4%	46,546	5,288	2,452	2,329,022	440	50
PURDUE- Steady - Growth	11.4%	49,604	5,636	2,800	2,482,036	440	50
PURDUE- High Growth	11.4%	51,988	5,906	3,070	2,601,324	440	50

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#### **Program Content Summary**

#### HSSE

Increase of harvested 6,000 sf Possible loss of 17,300 sf 927 new seats Virtual learning hub 15 group study Interview room Presentation room 2 special projects rooms Quiet/silent reading room Single service point Experimental Classroom Center for Digital Scholarship\* Knowledge Gallery Cafe

#### HIKS

No change in area 58 new seats Higher utilization seat type (adds 122 'perceived' seats)

#### WALC

No change in area No change in study seats High visibility makerspace

#### MATH

No change in area 70 new seats More seating variety/choice

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#### KRAN

No change in area No change in study seats

#### LYNN

No change in area No change in study seats

#### TERM

Loss of 2,295sf (close library) Loss of 63 seats

#### **S-HUB** (South Hub) Increase of new 77,000sf

1,149 new seats Virtual learning hub 32 group study 2 special project rooms Quiet/silent reading room Single service point Center for Digital Scholarship\* Expanded A/SC\*\* Knowledge Gallery\*\* Cafe

#### **R-HUB** (Residential Hub)

Increase of new 12,500sf - 35,000sf 300-900 new seats (based on enrollment scenario) Virtual learning hub Seating variety/choice Quiet/silent reading room Single service point



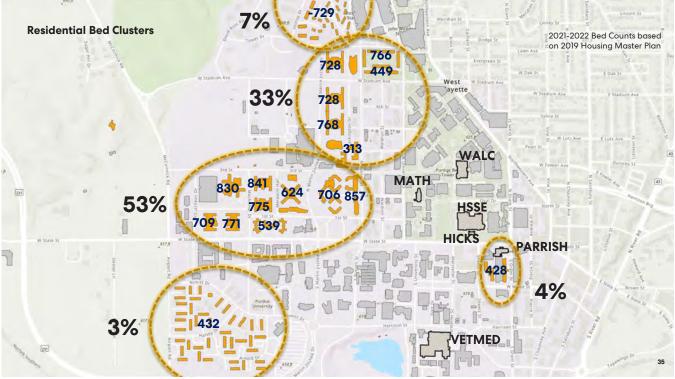
## **Planning Scenario Refinement**

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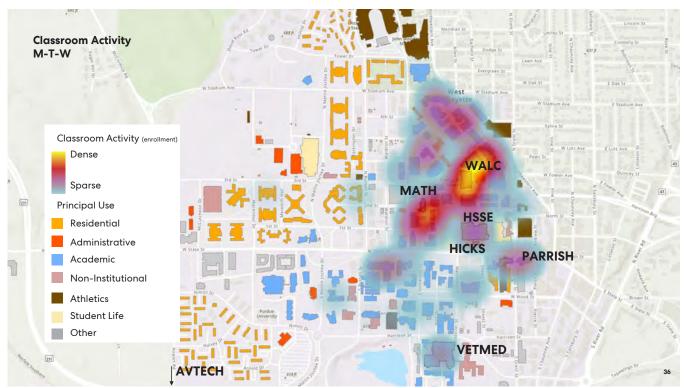


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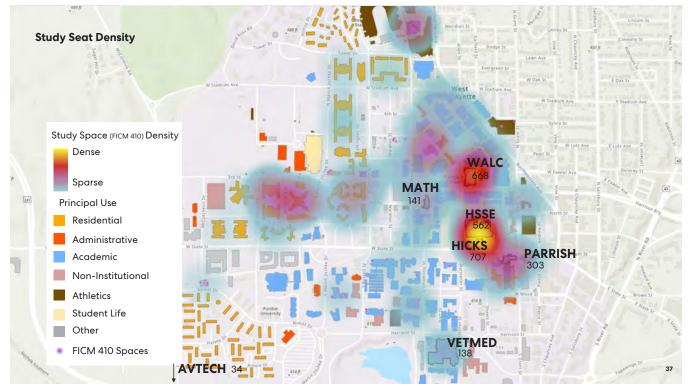


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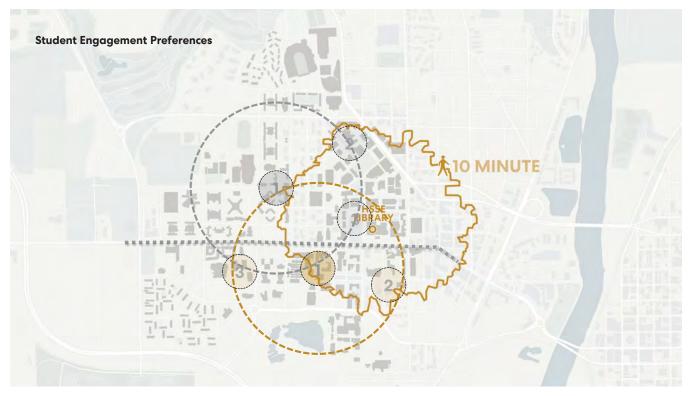


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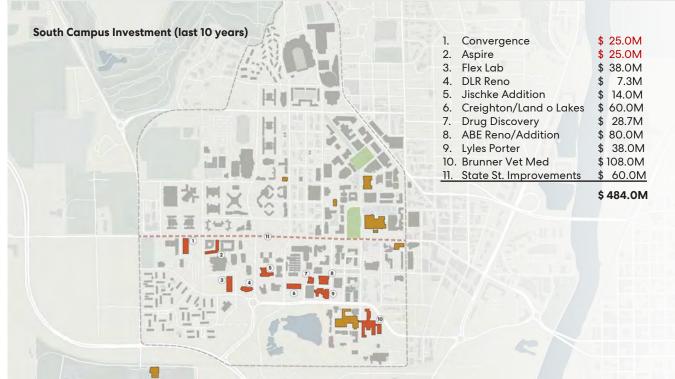


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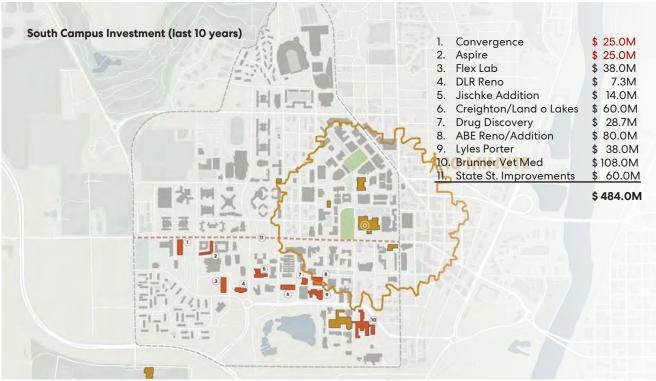


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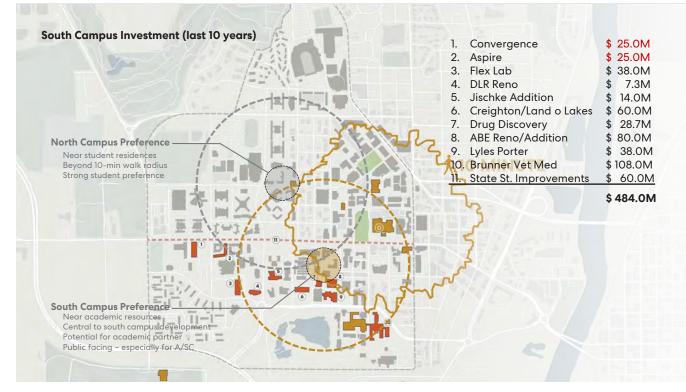


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#### 2<sup>nd</sup> Library Hub Site Criteria

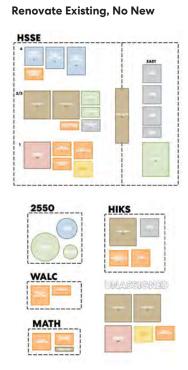
CRITERIA	S/TE									
		2		4	3					
Ground Level Student & Public Visibility And Identity										
Proximity To Some Public Parking For A/SC										
Centrally Situated To Academic / Research Buildings and Students										
Location With Potential For Strong Academic Partner Or Classroom Cluster										
8 - 10 Minute Walk To South Campus investment Zones										
Size: +/- 75,200 GSF Building With A 24,000 GSF Libraty Buildng Footprint (+ Partner)										
Donor Appeal Potential										
Site Availability Aligns With Construction Horizon										

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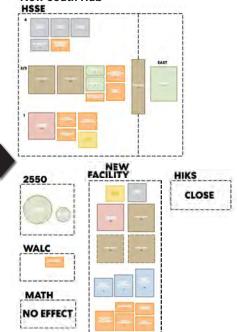
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#### Renovate Existing/ New A/SC



#### Renovate Existing/Close HIKS/ New South Hub



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#### Improvement Scope By Library

		2	3 2550 Republicary	4 Humanities, Social Sciences and Education	5 undergrowtered	6 Englowering	7 PARRISH Management and Economics	8 Veterinary Medicine	9 Methematical Sciences	10
	A/SC	TBD	2550	STEWART	HICKS	WILMETH	KRANNERT	LYNN	MATH	TERMINAL
New Construction	۲	۲								
Renovation			۲							
Interior Refresh				۲						
Selective Refresh						۲			۲	
FFE Only										
Brand Update	1.181			8	÷.	18		18	· · · ·	8
Vacate / Close					~					~
		1.11								



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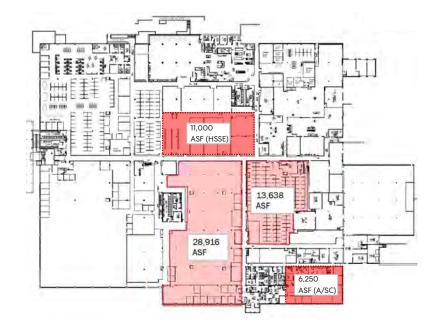
#### Potential Library Storage Site (Preliminary Test Fit)

Additional HSSE Collections: 32,500 LF

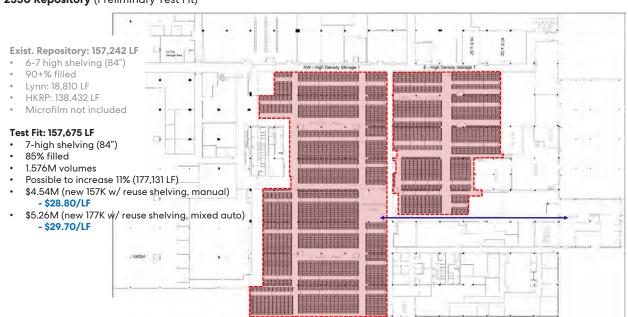
• Need 10,850 SF HD Storage

Additional MATH Collections: ??LF
• Need ??SF HD Storage

- A / SC Storage:
- +/- 5,000 SF HD Storage
- 500 SF To-Be-Processed Holding
- 400 SF Cold Storage Area
- Security Improvements
- Fire Protection Improvements
- Environmental Control Improvements



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2550 Repository (Preliminary Test Fit)

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## **Building Scale: A/SC & 2<sup>ND</sup> HUB**

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#### **Archives & Special Collections**

	Space Type	EXIS	STING	2022 FULL PROGRAM						
		N.S.F.	Seats	Unit/ Area	Qty.	N.S.F.	LF	Staff	Seats	
8.0	PROGRAMMED SERVICES		ENISTING	10.00		2002 - PU	CGRACI			
	1.0 Access Services						1			
	2.0 Learning Commons			-					_	
	3.0 Library Collection	A								
	4.0 Special Collections	11,1dp				14,605	13,842	19	56	
	5.0 Seating + Collaboration					1				
	6.0 Library Operations	224		1		1,958	D	5	0	
	7.0 Partners + Special Programs	0	0			1,500	0	0	0	
	PROGRAMMED SERVICES SUBTOTAL	11,364	D			18,073	13,842	25	55	
8.0	GROSSING	Fictor	G,S.F.			N.S.F	Fictor	Summer of the	GS F	
	Program Multiplier	1.57			-		1.48			
9.1	Fit Factor		D	1		18.07/1	0.000		0	
91	Building Services/Tollets		D	2		18.073	0.120		2,169	
9.2	Circulation	-	10	2		DEMO	0.200		4,048	
8.8	Construction		0	8		-24,290	0.100	-	2,429	
	ADDITIONAL GROSSING SUBTOTAL	1000	6,477						8,646	
. 10		_		_		_				
10.0	TOTAL BUILDING AREA			1						
	8.0 Programmed Services		11,364	-					18,0	
	9.0 Additional Grossing	A	6,477						8,6	
	BUILDING TOTAL		17,841	÷					26,7	

#### Site Criteria:

- Ground Level Student & Public Visibility And Identity
- Proximity To Some Public Parking For A/SC
   Size: 1 (27,000,055 Public Parking With A (200)
- Size: +/- 27,000 GSF Building With A 6,000 GSF Library Building Footprint (+ Synergistic Partner)
- Donor Appeal Potential
   Site Availability Aligns With Construction Horizon

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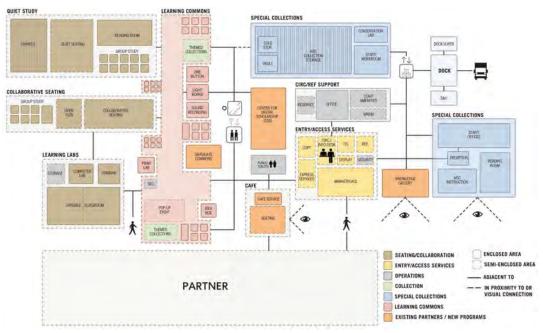
#### 2<sup>nd</sup> Library Hub

	Space Type  PROCRAMMEN SERVICES  10 Access Services  20 Learning Commons  30 Library Collection  40 Special Collections  50 Seating + Collaboration  60 Library Operations  7.0 Panners + Special Programs  PROGRAMMED SERVICES SUBTOTAL  SROSSIMB  Program Multiplier  Fit Factor  Building Services/Toilets  Circulation	EXI	STING	2022 FULL PROGRAM						
	Space Type	N.S.F.	Seats	Unit/ Area	Qty.	N.S.F.	LF	Staff	Seats	
6.0	PROCRAMMED SERVICES		E ISTING	- Property and	-	3022 65	003-4	-	-	
	1.0 Access Services	0.				1,752	180	5	e	
	2.0 Learning Commons	0				8,190	90	1	221	
	3.0 Library Collection	σ				800	1,080	0	0.	
	4.0 Special Collections	12,040	1	1	-	14,605	13,842	19	- 55	
	5.0 Seating + Collaboration	D.		11		19,925	0	0	774	
	6.0 Library Operations	224	1	11 T		3 188	0	-11	0	
	7.0 Partners + Special Programs	ō	1	1	_	4,613	0	0	117	
1.0	PROGRAMMED SERVICES SUBTOTAL	12,264	1	i to and		53,073	15,192	38	1,173	
3.1	GROSSING	Factor	GSF	1		N.S.F.	Flictor		GSF.	
	Program Multiplier	and the second second	-		_	-	1.45		_	
9.1		-	-0		-	53 073	0 000		0	
9,1	Building Services/Toilets		Ŭ			\$3,073	0.100		5,307	
9.2			0			58,310	0.200		11,676	
93	Construction		0	1:1	-	78.055	0.100		7,006	
	ADDITIONAL GROSSING SUBTOTAL	-	I						23,989	
10.0	TOTAL BUILDING AREA	1		-						
1.200	8.0 Programmed Services	-		-	_			1	53.0	
	9.0 Additional Grossing	-							23,9	
	BUILDING TOTAL	1	p	-	_				77.0	

#### Site Criteria:

- Ground Level Student & Public Visibility And Identity
- Proximity To Some Public Parking For A/SC Centrally Situated To Academic / Research . . Buildings and Students
- Location With Potential For Strong Academic Partner Or Classroom Cluster
- 8 10 Minute Walk To South Campus
- Investment Zones Size: +/- 75,200 GSF Building With A 24,000 GSF Library Building Footprint (+ Partner) Donor Appeal Potential
- Site Availability Aligns With Construction Horizon

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#### Second Hub Program Map

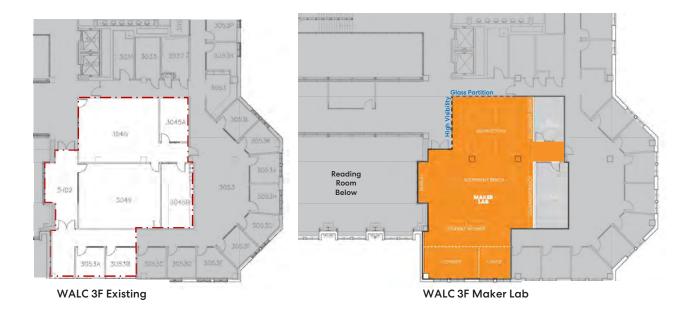
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#### WALC Makerspace



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## Building Scale: HSSE

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#### **HSSE Program Summary**

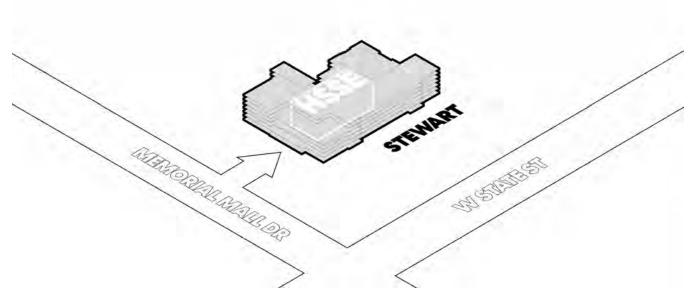
	Space Type	EXISTING		2022 FULL PROGRAM						
		N.S.F.	Seats	Unit/ Area	Qty.	N.S.F.	LF	Staff	Seats	
80	PROOFAMMED SERVICES	200	2022 FEX 39 Am							
	1.0 Access Services	3,891	0			2,292	150	6	10	
	2.0 Learning Commons	7,494	G		- 1	5,120	- 90	0	142	
	3.0 Library Collection	21.727			_	18 193	29,745	0	66	
	4.0 Special Collections	11 140	0			0	0	0	0	
	5.0 Seating + Collaboration	30,158		1	-	33,535	0	0	1,264	
	6.0 Library Operations	3,121	2			9,816	0	8.5	0	
	7.0 Partners + Special Programs	3,639	0			15,421	0	- 11	225	
	PROGRAMMED SERVICES SUBTOTAL	B1 200		1		84,377	30,015	105	1,707	
8.0	GROSSING	Pactor	GLS F	1	-	N.S.F	Factor	-	G.S.F	
_	Program Multiplier	1.57	The second				1.52			
9.1	Fit Factor		0			81,317	0.050		4,219	
9.1	Building Services/Tailets		0		-	188,777	0 100	-	8,438	
9.2	Circulation	11	0		-	37034	0.200		19,407	
9.3	Construction	1	0			116,440	0.100	0 "s.	11,644	
-	ADDITIONAL GROSSING SUBTOTAL	Contractory of		i.,			0.00	_	43,707	
10.0	TOTAL BUILDING AREA	1		-						
	8.0 Programmed Services	-	81.200				-	-	84,37	
	9.0 Additional Grossing	1.000	46.596						43.70	
_										

#### Notes:

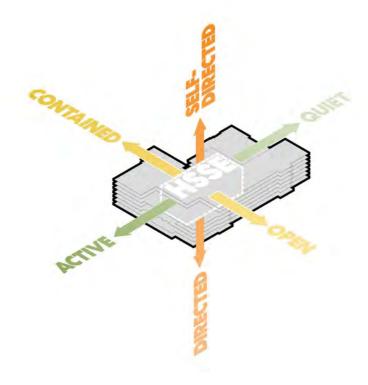
Increase of harvested 6,000 sf Possible loss of 17,300 sf 927 new seats Virtual learning hub 15 group study Interview room Presentation room 2 special projects rooms Quiet/silent reading room Single service point Experimental Classroom Center for Digital Scholarship\* Knowledge Gallery Cafe

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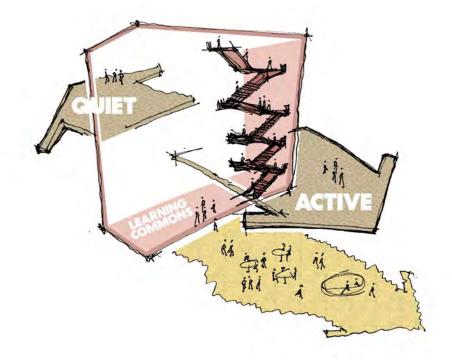


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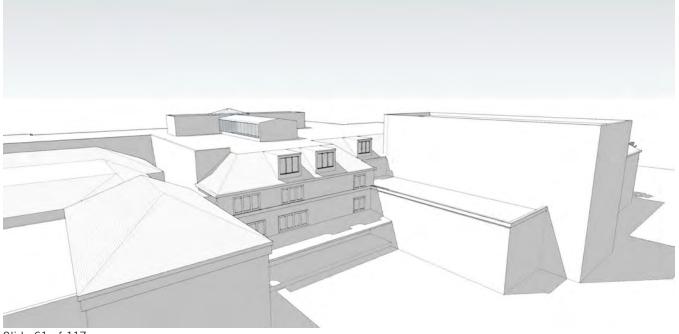
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Dormer Study - North



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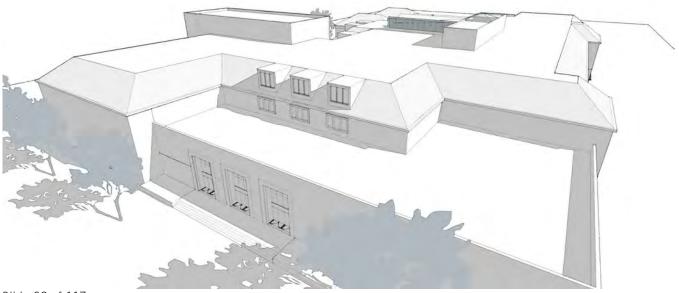
Dormer Study - North



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#### Dormer Study - West



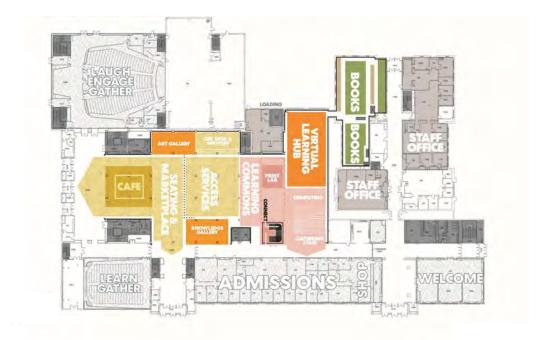
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#### Dormer Study - West



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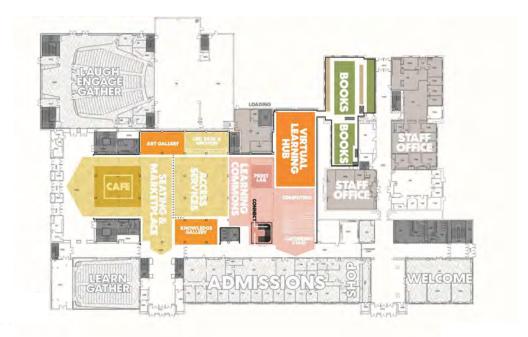


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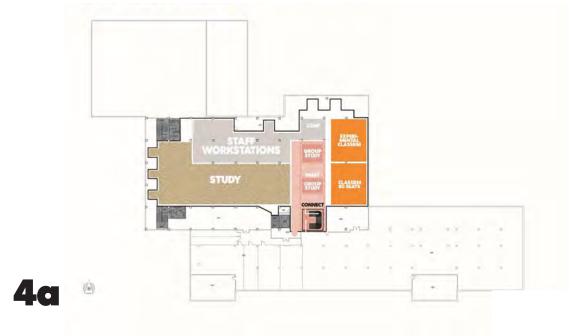


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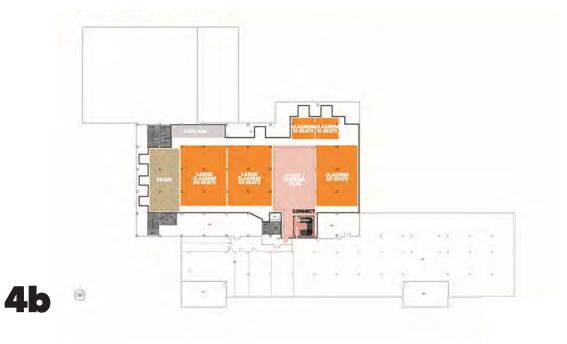


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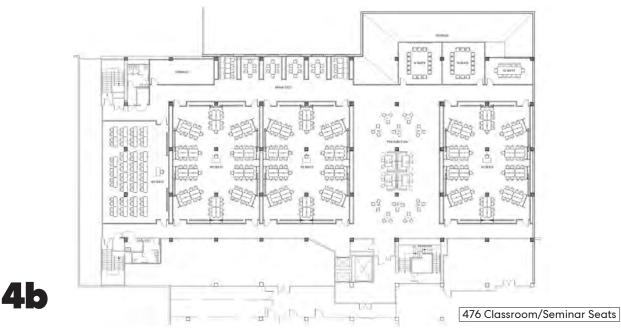
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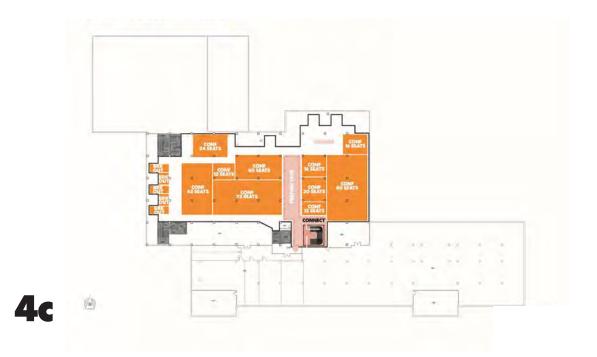
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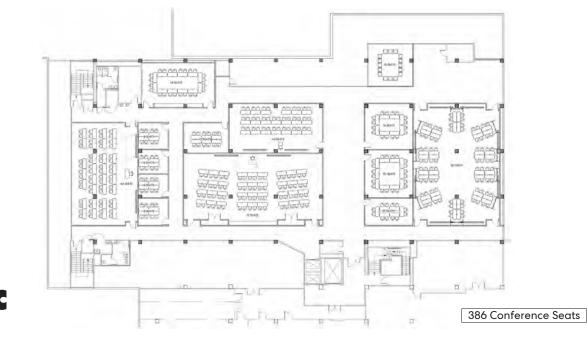
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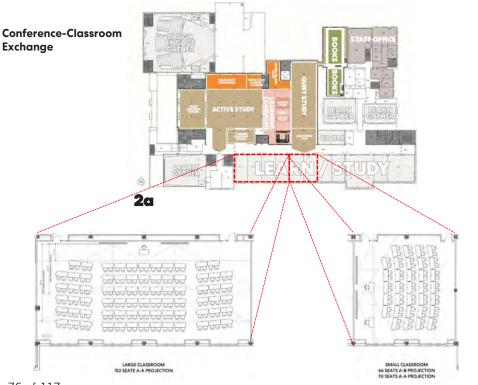




#### **Conference Study**



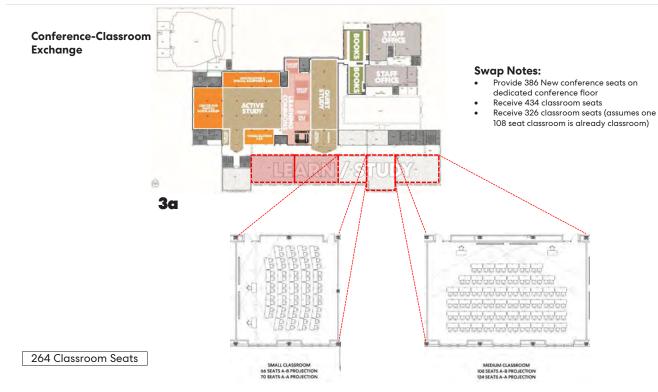
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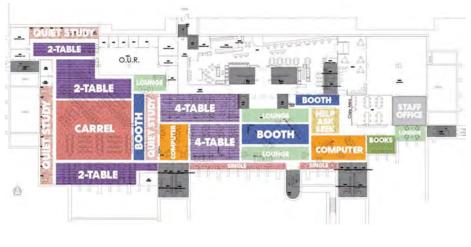
# **Building Scale: HIKS**

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#### **HIKS Rezoned by Seat Type**

#### **Conceptual Plan**

- Prioritized high performing seat types, zoned from active/collaborative to quiet/independent workstyle.
- Active spaces support agile working, equipped with whiteboards and mobile furniture or communal tables. Positioned along high traffic corridors and near resources (staff, restrooms, and café).
- Quiet, individual spaces were most popular followed by tables with dividers.
   Positioned in remote portion of floor using architecture to semi-enclose the space while keeping window lines open.
- Lounge spaces used as transient/shortterm use. Positioned along high traffic spaces and outside of classrooms.
- Study rooms for group work and virtual learning supporting 2- and 4-people.





76% Max experienced capacity

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80



81

82

Active Example Seat Type









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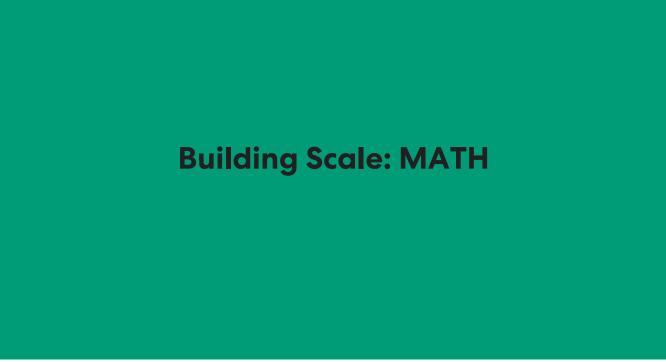




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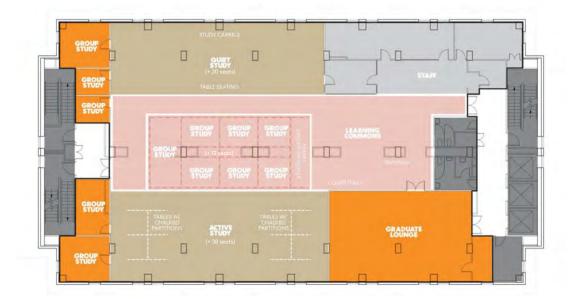






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## **MATH Reconfiguration**



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## Improvement Scope By Library

	PHASE 2		PHASE 1	PHASE 3		PHASE INDEPENDENT				
	1 ==== A/SC	2	3 2550 2550	4 Humanities, Social Sciences and Education STEWART	5 инферрология ніска	6 Englowering Sciences WILMETH	7 Management and teonomics KRANNERT	8 Veterinary Medicine	9 Methematical Sciences MATH	10
New Construction	۲									
Renovation			۲							
Interior Refresh				۲						
Selective Refresh						۲			۲	
FFE Only				6						
Brand Update				8.				18	8	-18
Vacate / Close					~					~
		1			1	-				



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## **Virtual Learning Hub & Experiential Learning**

Experimental learning Black box theatre Teaching in the round is of interest Distributed classrooms are of interest Classroom of the future - connected to AR, VR, AI, and other technology If unscheduled - could turn into classroom Purdue Online has reached out in regards to technology drivers Think of it differently so it does not get commandeered as a classroom Merger of experimenting and taking your class there for two weeks Tie to pedagogy and practice teaching Designed for observation/research and assessing

## Perkins&Will

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# **Experiential Alignment**

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## **Brand Recap – Purdue Libraries**

## Today

Welcoming service organization.

Equitable access to information & resources.

Teach crucial information skills.

Furthering the field of Information Science through research.

Distributed "hodge-podge" of resources & services.

We have study spaces; WE ARE MORE THAN BOOKS.

Striving to be better understood by all.

Nice. Helpful. Friendly. Welcoming. Willing and Ready to Assist. Open to new ideas.

Serve the information needs of the Purdue community.

## Future

An Information Service Hub for Purdue...so much more than books!

Cohesive. Complementary. Inclusive.

Discover. Create. Grow. Innovate. Let us inspire you.

Advancing leadership and the profession through critical research.

Portfolio of resources, experiences and experimentation for all.

Dynamic multi-space environment with great resources.

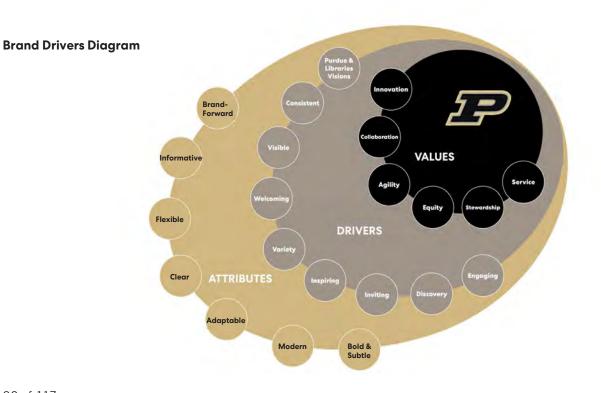
Responsive services and staff at the academic forefront.

Expert level instruction and personalized guidance.

Still open to new ideas.

Connected within our organization, the university, the community, and the world.

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#### **Library Experience** Awe inspiring EXCITEMENT Study Discover Inspire Show Learn Explore Demonstrate Concentrate Learn Excite Seek Authenticate Energize HELP AUTHENTIC Support Engage Innovate Collaborate Collaborate Help Connect Experiment Information Community Ideate Print INSPIRING FUN Partner Make Technology Share YOHDER DEDICATION

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## **Strategic Opportunities Matrix**

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## **Top 10+ Brand Strategies**

## WHAT

- 1. Develop exterior sign solution to promote Library presence in each building location, while respecting the Purdue brand.
- 2. Develop consistent interior sign system that clearly announces the individual Library and points of entry.
- 3. Develop consistent interior sign system that identifies functions, space types, and intended use.
- 4. Create between-class study zones and virtual class participation spaces in Virtual Learning Hubs.

## WHY

- Make libraries easier to find. Build greater brand awareness for Libraries on campus.
- Overcome difficult-to-find interior locations. Bring equity of treatment to each library. Build brand consistency.
- 3. Enhance user experience through clarity of purpose.
- 4. Communicate purpose; inform "reserve ahead". Modify behavior and provide alternative class participation.

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## **Top 10+ Brand Strategies**

## WHAT

- 5. Integrate digital tools to support student research and learning at the Center for Digital Scholarship.
- 6. Develop flexible Knowledge Gallery display platforms to better showcase Archives and Special Collections, and other Purdue stories.
- 7. Develop flexible Story-Telling methodologies that celebrate Purdue and the Library system; leverage across the network of Libraries.
- 8. Provide flexible display methods for special feature exhibitions and events.

## WHY

- Promote innovation.
   Put learning and innovation on display.
   Support Purdue and Library culture.
- Showcase depth of resources and knowledge. Build excitement for the Library brand. Enhance experience through discovery.
- Create equal experiences for each Library. Inspire all who use the Libraries. Celebrate the stories that make Purdue, Purdue.
- 8. Engage the broader Purdue Community. Position the Library system as a source of engagement, collaboration and partnership.

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## **Top 10+ Brand Strategies**

## WHAT

- 9. Provide opportunities for student, faculty and administration postings, in an organized manner.
- Develop a series of Website templates and icons that can be leveraged across various communication methods, digital cataloguing, and information sharing platforms.
- 11. Create a system of branded distraction graphics for glass-fronted spaces.
- 12. Create "brand" destinations within the Libraries that support collegiality and collaboration.

## WHY

- 9. Minimize the clutter and visual confusion!
- Create visual consistency and bring clarity to navigation.
   Create visual excitement for the Library brand.
   Align the physical experience and the on-line experience.
- Safety. Consistency. Extend the brand experience.
- 12. Build community. Support Purdue culture. Drive preference of place.

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# **Brand Potential**

Kit-of-Parts Tool Kit

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Brand Potential – Exterior Identity HOW



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Brand Potential – Interior Identity HOW



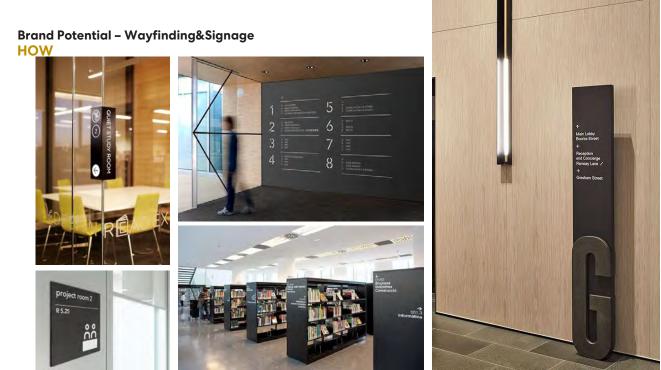
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## Brand Potential – Interior Identity, Wayfinding & Signage HOW



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## Brand Potential – Virtual Learning Hub HOW





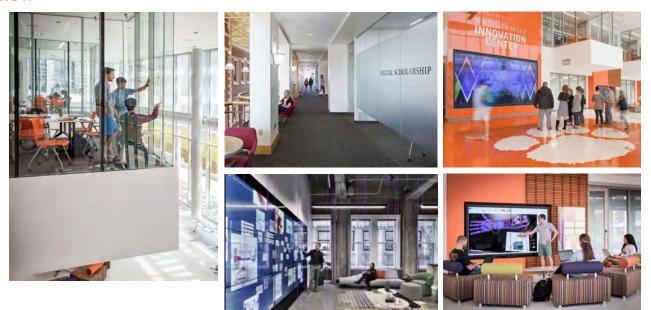




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## Brand Potential – Center for Digital Scholarship HOW



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## Brand Potential- Knowledge Gallery HOW



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## Brand Potential – Story-Telling HOW



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## **Brand Potential – Exhibitions**



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## **Brand Potential – Postings** HOW



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## Brand Potential – Glass Distraction Graphics HOW



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## Brand Potential – Branded Destinations HOW



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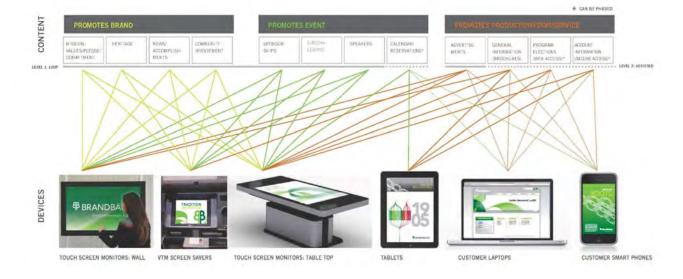


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## **Brand Potential – Web Presence**

HOW CREATING EQUAL EXPERIENCES



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## Wrap Up & Next Steps

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## **Next Steps**

June 2: Conversation and Updates with Provosts

## June 17:

Workshop #9 (propose to change the date to June 21) June 30:

Occuspace complete data collection

Schedule Third and Final Executive Committee Meeting

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# Q+A

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## **Program Content Summary**

#### **SF** Comparison

Existing HSSE & HIKS nsf: 161,170 sf

Draft Program nsf: 208,390 sf

#### Seating

Existing Seat Count: 2,836 seats

#### Seating Projections:

- 1995 ACRL method suggests need for: 5,214 additional seats
- 2006 A4LE method suggests need for: 4,234 additional seats
- Current Benchmark method suggests need for: 2,390 additional seats
- Draft Program adds 1,937 seats (80% of benchmark method)
  - 40% Active | 60% Quiet
    - Adds 41 group study rooms to existing (4 X increase)

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## **Program Content Summary**

## **Enhanced Programs**

- Study Seats (quantity and variety)
- . Quiet (silent?) Reading Room
- Themed Browsing Collections ٠
- A / SC:
  - doubling storage capacity
  - cold storage
  - group room
  - conservation lab
- Maker Space

## **New Programs**

- IT Support Desk •
- . Drop-In Services
- . Express Computing •
- Self-Check
- Print Lab
- Digital Signage •
- Seminar Rooms (2)
- Active Learning Classroom
- Special Projects Rooms (5) • •
- Virtual Learning Hubs •
  - Café
- Non-Traditional Students Lounge •
- Experimental Classroom
- Center for Digital Scholarship
- Knowledge Gallery
- Graduate Commons .

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## Workshop 9: June 21, 2022

## **Meeting Details**

Meeting Date:	6.21.2022	Project Name: Purdue Uni		versity Libraries Master Plan	
Meeting Time:	2:00 PM	Project Number:	021661.000		
Meeting Location:	Via Teams	Attendees:	Jessica Figenholtz, De Jones, Florent Mettet Mark, Scott	z, Derek Jones, Eileen ttetal, Rebecca, Drew,	
Discussion					
ITEM NO.	DESCRIPTION			RESPONSIBILITY	
001	<ul> <li>Workshop #9</li> <li>1. Beth - Can we have a terrace? roof structure; Michael likes the</li> <li>2. Library Arrival from South - Be would drive people up.</li> <li>3. Michael - How can we think at</li> <li>4. Experiential Planning: Use icon buildings; "Book display" open</li> <li>5. Allison - People love the mural Want welcome open space.</li> <li>6. Varsity is not ideal.</li> <li>7. Phasing: <ol> <li>Get books off floor of HSSI</li> <li>A - A/SC get on first floor of B - connected to 2A; Movin Solves HSSE</li> <li>3. Any others bigger lift and a improvements to HSSE and</li> </ol> </li> <li>Action Item: Get date of board meetin restack; Beth - talk with gallery people</li> </ul>	e terrace idea. th likes archives on fi bout art and make a system as a marker shelf box. ; Modify canopy to n E; Remove books so t of HSSE/Varsity/anot ng S/AC off 4th floor, may take longer. Dor d other libraries g in July - material f e and give heads up;	rst floor; Staircase statement for HSSE? to find library within ot come out as far: hey aren't an obstacle her HUB enables restack; n't want it to stop <b>or that meeting; HSSE</b> <b>Beth and Allison –</b>		

**Please note:** The foregoing constitutes our understanding of matters discussed and conclusions reached. Other participants are requested to review these items and advise the originator in writing of any errors or omissions.



## **PRESENTATION SLIDES**



Purdue University Library Master Plan: Workshop #9 6/21/2022

Perkins&Will

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## Agenda

Master Plan Status & Schedule Update

**Occuspace Update** 

**Experiential Alignment** 

**Planning Scenario Refinement** 

-System Scale

-Building Scale

– HSSE Restack

Varsity Study for A/SC

Phasing

Wrap Up & Next Steps

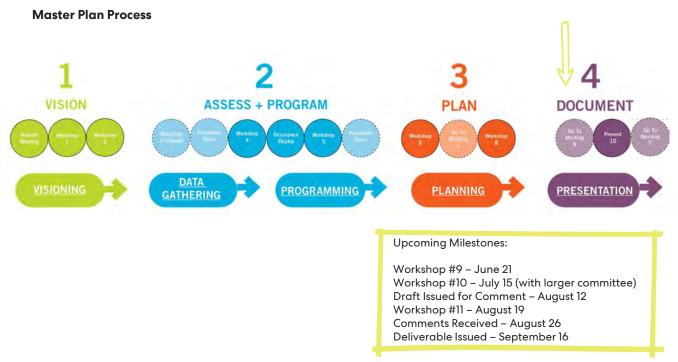


Slide 2 of 66



## **Project Status Updates**

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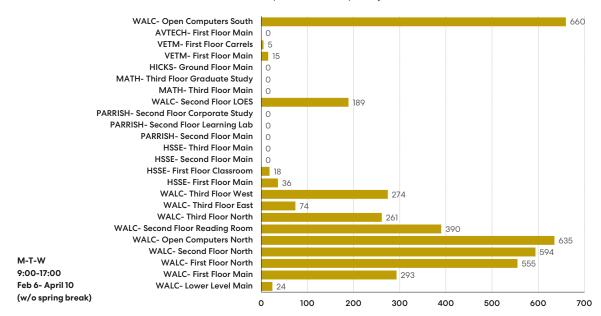
Slide 4 of 66





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## Stress Instances for Libraries - over 70% 'experienced capacity

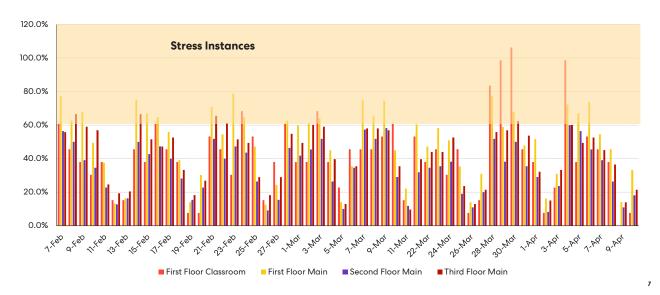


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## **Stress Instances for Libraries**

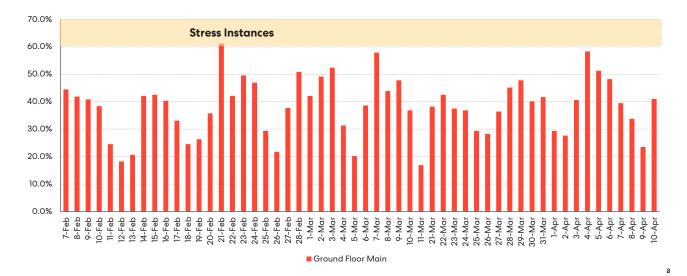
## HSSE



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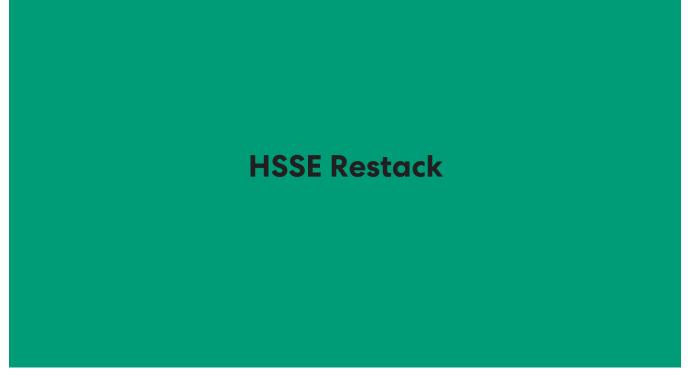
#### **Stress Instances for Libraries**

HIKS

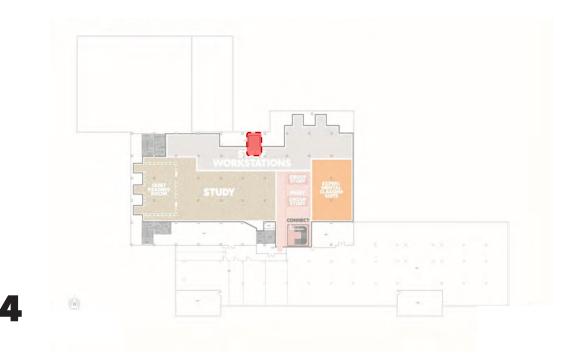


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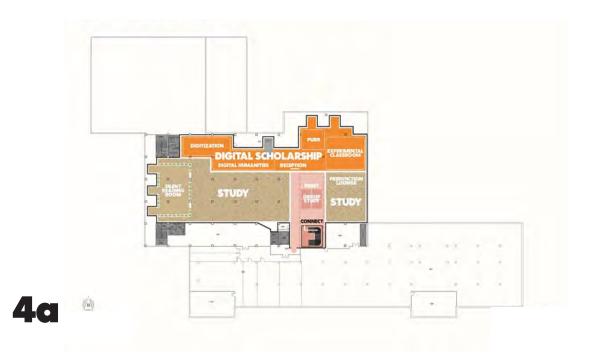
**2**a

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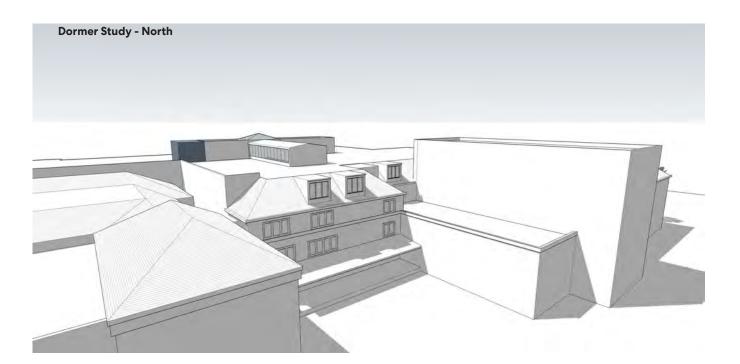


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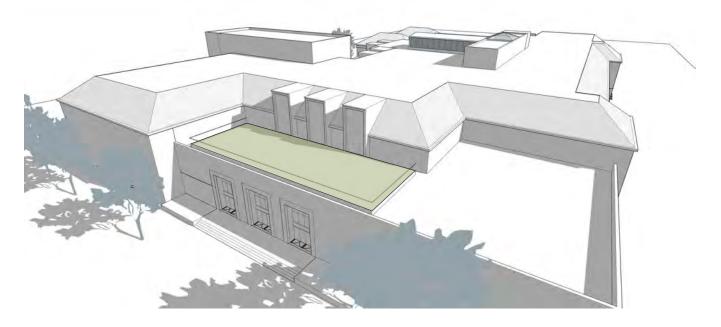
Slide 15 of 66



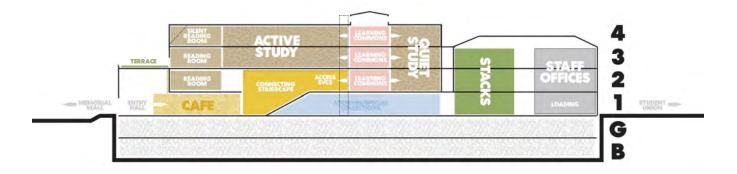
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## **Dormer Study - West**



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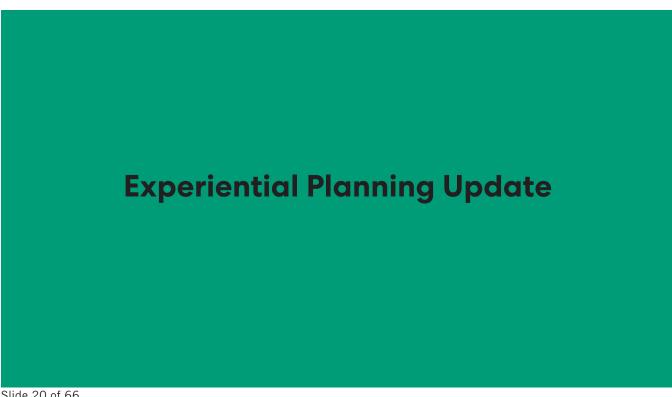


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## Brand Potential – Icon System HOW



Perkins&Will

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## Brand Potential – Icon System HOW

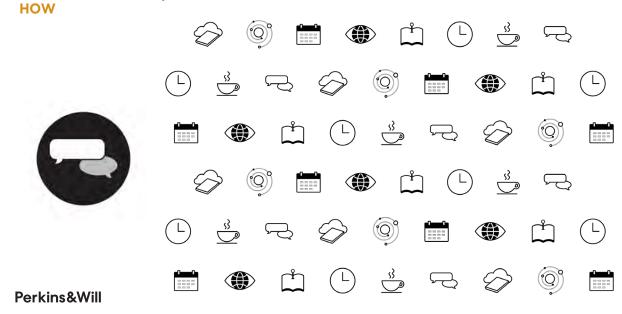


## Perkins&Will

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## Brand Potential – Icon System



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## Brand Potential – Exterior Identity HOW



## Perkins&Will

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Brand Potential – Exterior Identity HOW



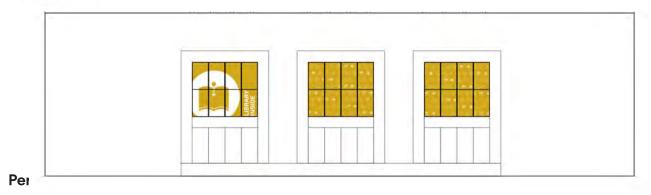


## Perkins&Will

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Brand Potential – Exterior Identity HOW





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Brand Potential – Interior Identity HOW



Perkins&Will

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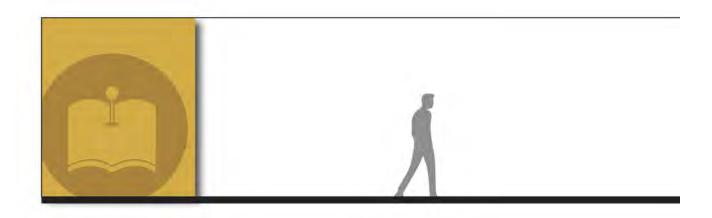
## Brand Potential – Interior Identity HOW



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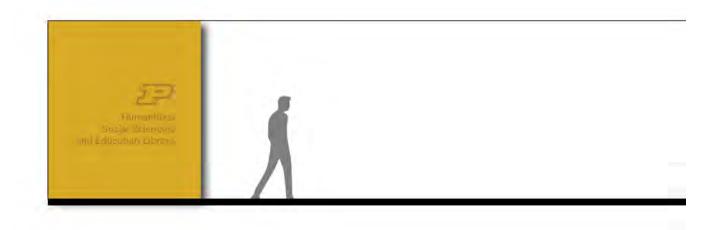
Brand Potential – Interior Identity HOW



### Perkins&Will

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### Brand Potential – Interior Identity HOW



### Perkins&Will

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Brand Potential – "Book Display" HOW





Perkins&Will

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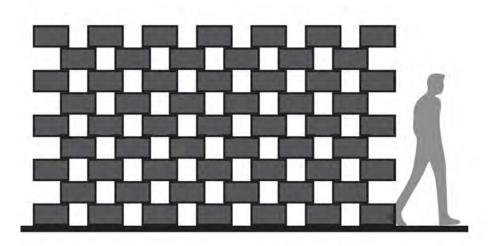
### Brand Potential – "Book Display" HOW



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Brand Potential – "Book Display" HOW



### Perkins&Will

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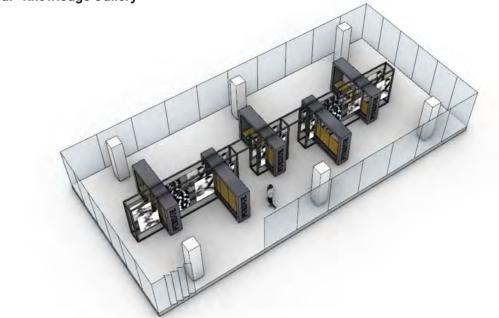
# Brand Potential- Knowledge Gallery HOW



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# Brand Potential- Knowledge Gallery HOW



### Perkins&Will

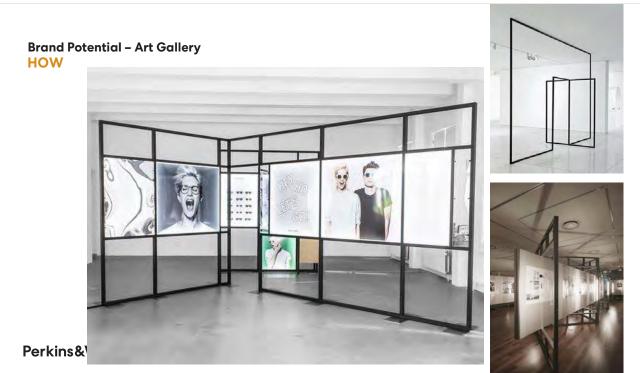
Slide 35 of 66

### Brand Potential- Knowledge Gallery HOW

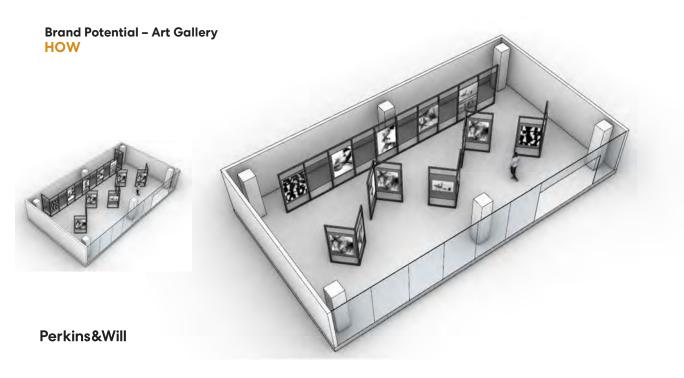


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Brand Potential – Story-Telling HOW





Perkins&Will

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### Brand Potential – Story-Telling HOW



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### **Brand Potential – Story-Telling** ALEST A SUG TAINITE OF TATING HOW 131 أولية المله المكانية المكان الملية 13 LUNSER 40, 19,04/11 Jallah OF OTHER SPORT FUTS MER. TO SUCH TESTS AS TRACK DOES. TO MAN AGAINST HIMSELF, T. SEE SOTS GROW INTO WIEN, RIGHT IN FRONT OF MY EVES. UE SILL SUIVERING 00011010010 10 8868181118688811 181 10011001110010 aac 18818181118818 abcdefghijklmnopqrstuvwxyz

### Perkins&Will

**Brand Potential – Story-Telling** 

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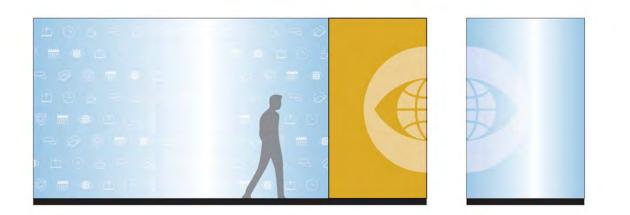
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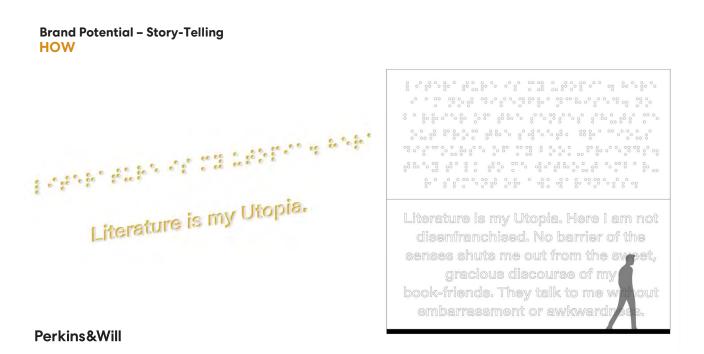
Slide 42 of 66



# Brand Potential – Glass Distraction Graphics HOW



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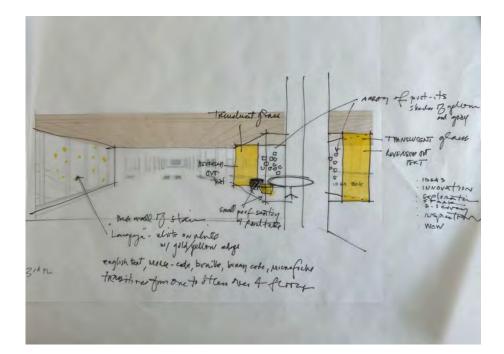


Brand Potential – Glass Distraction Graphics HOW



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### **Experiential Planning Update**



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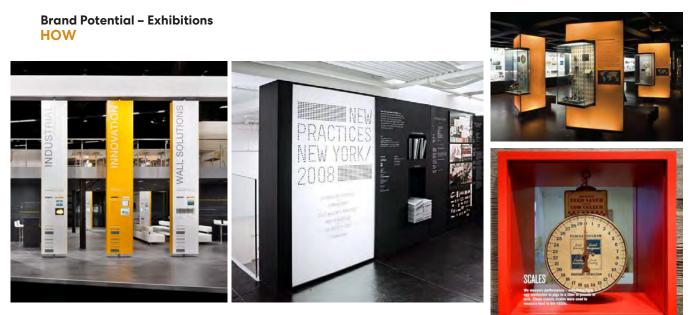


### **Experiential Planning Update**





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### Perkins&Will

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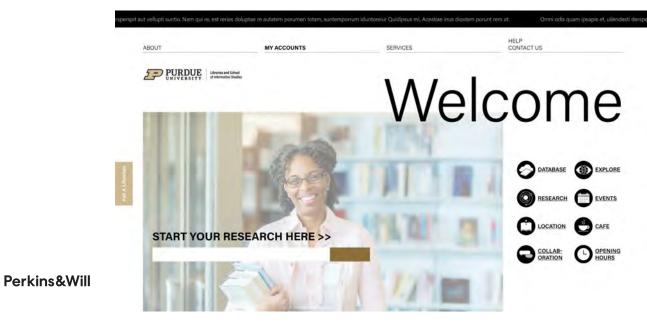




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### **Brand Potential – Web Presence**

HOW CREATING EQUAL EXPERIENCES



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### **Brand Potential – Web Presence**

**HOW** CREATING EQUAL EXPERIENCES



Perkins&Will

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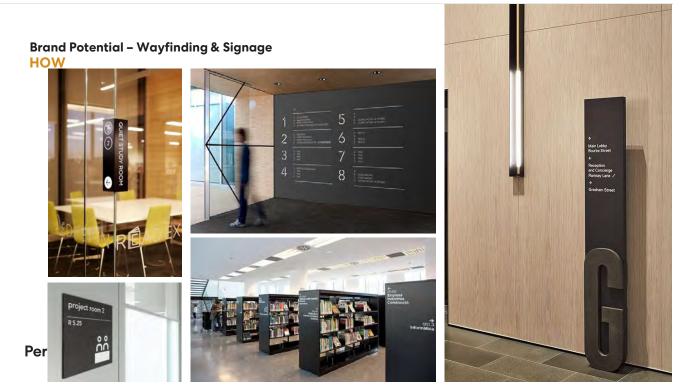
# Brand Potential – Interior Identity, Wayfinding & Signage HOW



### Perkins&Will

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### Brand Potential – Center for Digital Scholarship HOW



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### Brand Potential – Virtual Learning Hub HOW







Perkins&Will

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### Brand Potential – Postings HOW

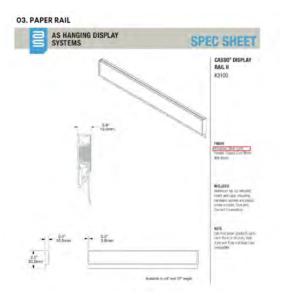


Perkins&Will

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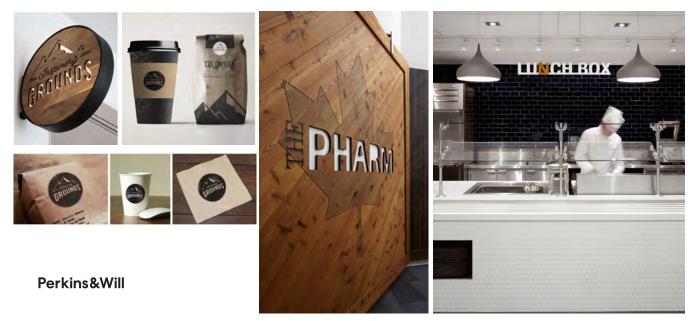
### Brand Potential – Postings HOW



Perkins&Will

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# Brand Potential – Branded Destinations HOW



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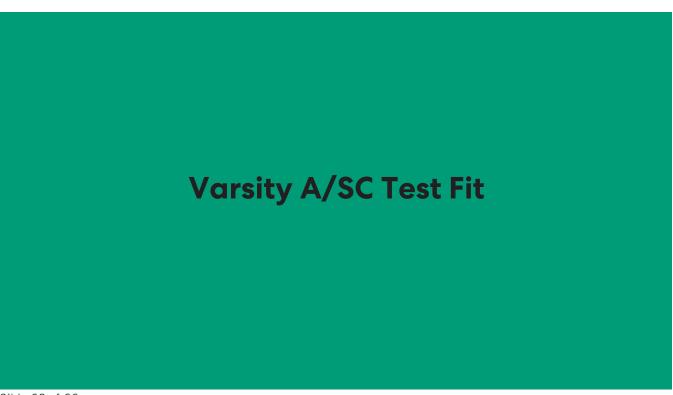
# Brand Potential – Branded Destinations HOW



Perkins&Will

Café

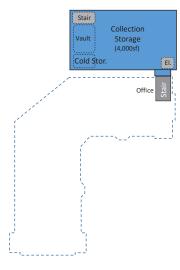
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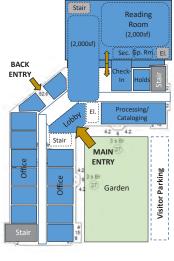


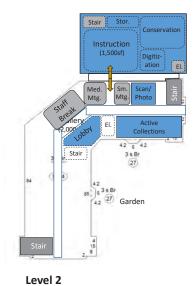
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#### Varsity Study: 3 Floor Addition





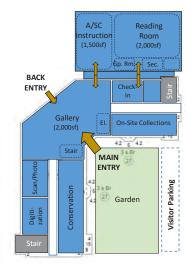


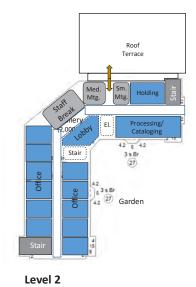
Basement

Level 1

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Varsity Study: 1 Floor Addition (back)



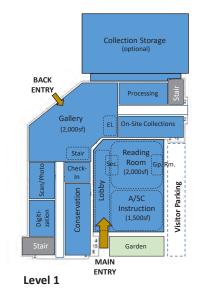


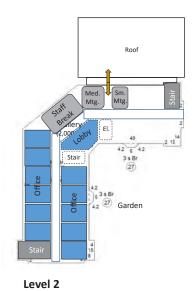


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### Varsity Study: 1 Floor Addition (front & back)





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### Improvement Scope By Library

	PHASE 2A	PHASE 2A         PHASE 3         PHASE 1         PHASE 2B         PHASE INDEPENDENT								
	1 =	South Campus Hub + Residential Hub	3 asso	4 Humanities, Social Sciences and Education	5	6 Englowering	7 PARRISH Management and Economics	8 Veterinary Medicine	9 Methematical	10
	A/SC	TBD	2550	STEWART	HICKS	WILMETH	KRANNERT	LYNN	матн	TERMINAL
New Construction	۲	۰								
Renovation			۲							
Interior Refresh				۲						
Selective Refresh						۲			۲	
FFE Only				6						
Brand Update				8		(8)		18		
Vacate / Close					~					~



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# Workshop 10: July 15, 2022

### **Meeting Details**

Meeting Date:	7.15.2022	Project Name:	Purdue University Libraries Master Plan
Meeting Time:	2:30 PM	Project Number:	021661.000
Meeting Location:	Via Teams	Attendees:	Jessica Figenholtz, Derek Jones, Eileen Jones, Florent Mettetal, Drew, Michael, Allison Leavitt, Amanda Gill, Tracy Grimm, Dean Lingley, Beth McNeil ,Robin Meher, Mark Puente, Rebecca Richardson, Candance Scott

ITEM NO.	DESCRIPTION					
001	Workshop #10	Perkins + Will				
	<ol> <li>Where to grow? Math, South Campus, Res Hub; Could be 2 future library hubs, one in south of state street (academic hub); One near res zone (residential hub).</li> </ol>					
	<ol> <li>Unlock HSSE: Library functions staring on second floor, where are restrooms and gender neutral?</li> </ol>					
	3. Experiential Planning Update: Notion of icon system, way to bridge was people access information (Physical or virtual); "Golden portal" with repeating icons; Film on exterior of building to pull in awareness of library; Two story identity; Study areas anchored by small intimate setting of books; A/SC - knowledge gallery, graphic information that carries the story; Align experiences on-line and in the physical environment.					
	<ul> <li>4. Implementation:</li> <li>Math: Keep 250 LF in library; Build out additional study rooms</li> <li>HIKS: All static shelving to be moved out; Could pick up another 100 seats if there is capacity</li> <li>Phase 4 - new south hub/new residential hub.</li> </ul>					
	<ol> <li>MG - Directed to assume that Purdue will get to the middle enrollment scenario at 40,000 undergrads. He expects they will be there by fall of 2025</li> </ol>					
	<ul> <li>6. Questions: <ul> <li>Stack related in HSSE, must include environmental conditions/upgrades.</li> <li>Like idea of moving A/SC to first floor and issue with open spaces on first floor. Near flex areas, security concerns.</li> <li>Correct aviation - NOT coming offline</li> <li>Issues with accessibility - Where are designated spaces for people with physical and visual impairments.</li> <li>Terrace idea - look at WALC area that can be activated</li> </ul> </li> <li>Action Item: HSSE Renderings need more color/light/texture (before and after).</li> </ul>					

**Please note:** The foregoing constitutes our understanding of matters discussed and conclusions reached. Other participants are requested to review these items and advise the originator in writing of any errors or omissions.



### **PRESENTATION SLIDES**



Purdue University Library Master Plan: Workshop #10 7/15/2022

Perkins&Will

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# Agenda

Schedule Update

Workshop Recap

**Data Collection Update** 

Planning Scenario Recommendations System Scale Building Scale Brand Experience

Phasing

Next Steps

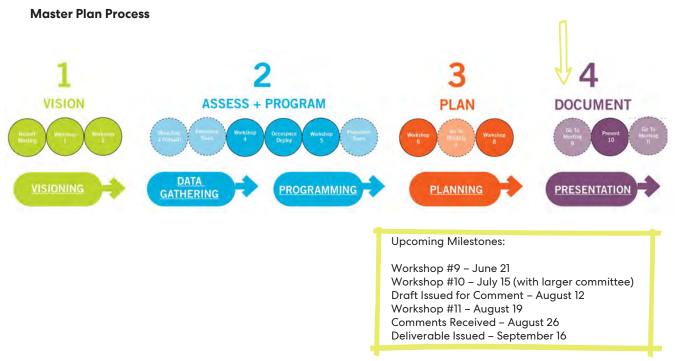


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# **Schedule Update**

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# **Workshop Recap**

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# THE BEST PLACE FOR ....

<b>GAL</b> Showcase what Exhibit new SC/A o	<b>LEDGE</b> others are doing scholarship display orthy collections	<b>LEARN</b> Individual seating Group seating f	TUAL ING HUB of for online learning for online learning for virtual learning	<b>CENTER FOR DIGITAL</b> <b>SCHOLARSHIP</b> Digital Humanities/Scholarship E-Archives / E-Pub Digitization One Button/Lightboard/Recordi Data/GIS Walk-In Services	
COLLECTION Based Programs	SC/A Engagement	SANCTUARY Space Outdoor Area	EXPERIMENTAL TEACHING & LEARNING CTR	ROBUST Makerspace	AR/VR RESEARCH
	NON-TRADITIONAL Student Lounge	CAFÉ/FOOD Service	STUDENT REST/NAP ROOM	STAFF/FACULTY Lounge	GRADUATE Study room

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# **Metrics**

ENROLLMENT GROWTH | UNDERSEATED | PROGRAM BALANCE

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### **GROWTH: Enrollment Scenarios**

021 Enrollment:	37,101	11,613
FTE %:	97.8%	71.0%
031 Enrollment	37,326	20,925
2031 Steady FTE:	36,491	14,851
	40,129	20,925
2031 Growth FTE:	39,231	14,851
	42,543	20,925
2031 Hi-Growth FTE:	41,591	14,851
piection (Purdue Provide	d)	
ojection (Purdue Provide 2031-Steady	d) 36,491	14,851
		14,851 14,851

51,342 [2021 enrollment = 45,990; 2031 = +12%] 54,082

56,442

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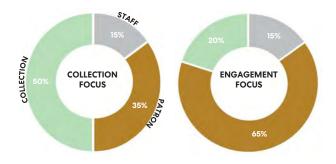
#### UNDERSEATED: Seat Count Projections

Institution	-	Student FTE	Library Seats	% of students	Gate Counts	Visit/ Seat	Visit/ Studen
Ohio State University		61,391	4,333	7.1%	4,103,455	947	67
North Carolina State University		34,767	5,027	14.5%	2,464,590	490	71
lowa State University		33,391	3,330	10.0%	1,916,666	576	57
Universtiy of NC, Chapel Hill		29,877	5,705	19.1%	2,667,100	468	89
Western Michigan State University		21,470	2,551	11.9%	597,958	234	28
Georgia Tech University		19,432	2,360	12.1%	318,614	135	16
Miami University	-	17,697	1,640	9.3%	382,474	233	22
	Average	31,146	3,564	12.0%	1,778,694	440	50
Purdue Library (2018-19)	6,8%	41,878	2,838	1 ( A )			
PURDUE- Steady	11.4%	51,342	5,833	2,997	2,568,985	440	50
PURDUE- Growth	11.4%	54,082	6,144	3,308	2,706,101	440	50
PURDUE-High Growth	11.4%	56,442	6,412	3,576	2,824,188	440	50

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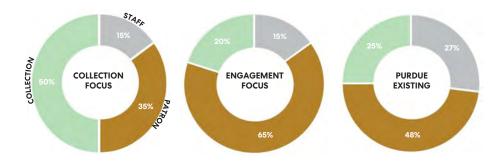


# **PROGRAM BALANCE: Space Use Allocation Studies**



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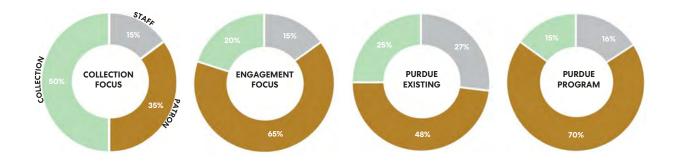
# **PROGRAM BALANCE: Space Use Allocation Studies**



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# **PROGRAM BALANCE: Space Use Allocation Studies**



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# WHO USES THE LIBRARIES ?

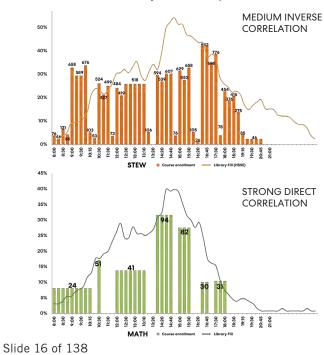
Top Colleges & Schools by Library

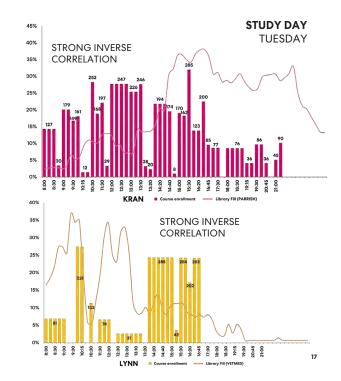
Largest splits but	-
include a wide	
majority of majors	

_		AVTE	HIKS	HSSE	MATH	PARRISH	VETMED	WALC
	College of Agriculture	1.9%	8.9%	9.3%	<b>7</b> .0%	7.6%	10.0%	<mark>8.</mark> 4%
	College of Education		1.4%	1.4%	2.3%	0.5%		1.8%
_	College of Health & Human Sci	2.5%	11.1%	<b>11.4</b> %	10. <mark>3%</mark>	9.7%	5.5%	10.6%
	College of Liberal Arts	0.5%	12.6%	13.4%	10. <mark>2%</mark>	<b>7</b> .9%	2.5%	<b>11.9</b> %
	College of Pharmacy	0.5%	0.6%	0.6%	1.1%	0.9%	0.3%	0.5%
	College of Science	1.4%	13.5%	13.6%	<b>19.5%</b>	10.8%	4.5%	13.3%
	Construction Engineering Mgmt		0.5%	0.4%	0.4%	0.2%		0.4%
-	Div of Environ & Ecol Engr		0.5%	0.5%	0.3%	0.7%		0.4%
-	Doctor of Pharmacy	0.2%	0.6%	0.6%	0.7%	1.0%		0.5%
-	Exploratory Studies	0.2%	0.6%	0.6%	1.0%	1.0%	0.7%	0.5%
	First Year Engineering	0.9%	0.6%	0.6%	1.3%	1.0%	1.6%	0.5%
	Graduate Professional		0.0%	0.0%	0.0%		0.2%	0.0%
_	Graduate School	<b>31.3%</b>	18.8%	19.6%	16.8%	18.2%	38.4%	21.5%
	Polytechnic Institute	42.8%	12.3%	10.8%	10.5%	9.5%	3.1%	12.6%
	Pre-Pharmacy		0.1%	0.0%	0.0%	0.0%	0.5%	0.1%
	School of Aero and Astro Engr	1.9%	0.6%	0.6%	1.1%	0.8%		0.5%
	School of Agr and Bio Engr		1.2%	1.2%	1.0%	0.9%	1.2%	1.3%
	School of Biomedical Engr		0.5%	0.5%	0.8%	0.8%	0.7%	0.5%
	School of Chemical Engineering	0.7%	0.6%	0.5%	0.9%	0.9%	0.8%	0.5%
	School of Civil Engineering	0.4%	0.6%	0.6%	0.8%	0.9%	0.3%	0.5%
	School of Elec & Computer Engr	1.2%	1.2%	1.1%	2.0%	2.4%	0.5%	1.0%
	School of Industrial Engr	0.4%	0.6%	0.6%	1.1%	1.2%	0.8%	0.5%
	School of InterdiscipInry Engr		0.5%	0.6%	0.5%	0.2%		0.7%
	School of Management	10.6%	9.6%	9.2%	<b>8</b> .1%	20.3%	3.1%	8.9%
	School of Materials Engr		0.5%	0.5%	0.6%	0.7%		0.4%
	School of Mechanical Engr	0.4%	0.6%	0.6%	1.0%	1.2%	0.6%	0.5%
	School of Nuclear Engineering		0.4%	0.3%	0.4%	0.0%	0.1%	0.4%
-	Temporary	2.3%	0.3%	0.4%	0.4%	0.2%	0.3%	0.6%
	Veterinary Medicine		0.4%	0.3%	0.0%	0.4%	10.6%	0.3%
-	Veterinary Technology		0.3%	0.1%	0.0%		12.7%	0.2%

Based on 2017-2019 WIFI Data

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#### **The Classroom & Library Relationship**

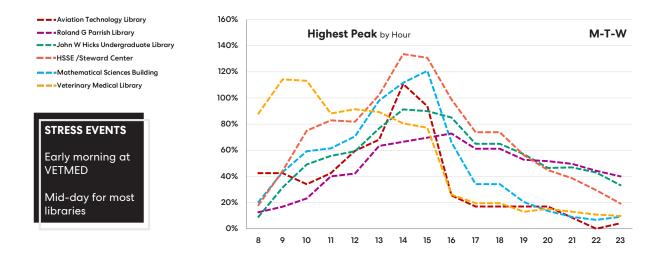
15



18

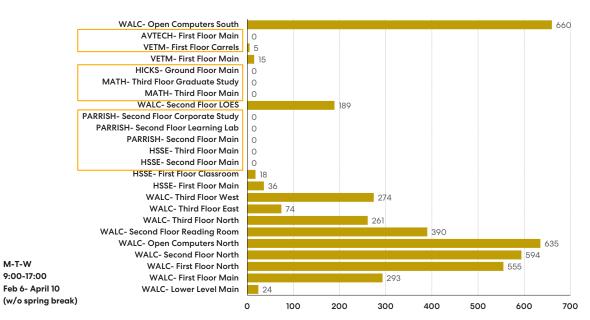
19

#### **Understanding Stress Peaks**



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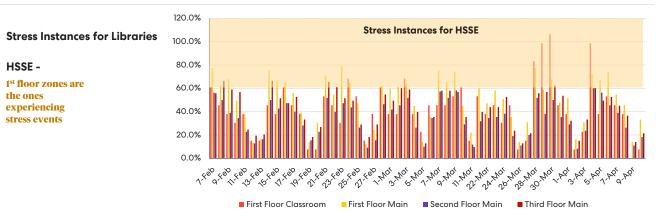
#### High Stress Instances for Libraries - over 70% 'experienced capacity



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M-T-W

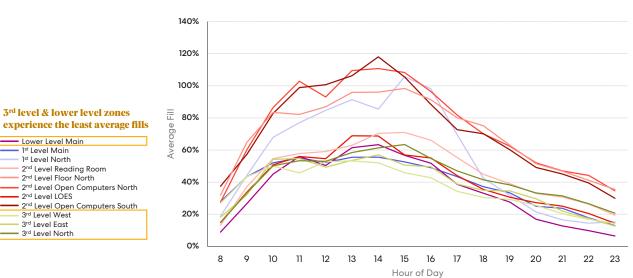






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HIKS -



### WALC - Which Zones Fill Up First?

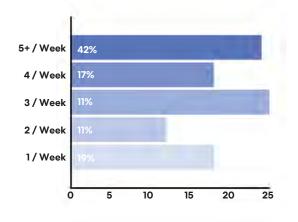
M-T-W

### Slide 20 of 138

21

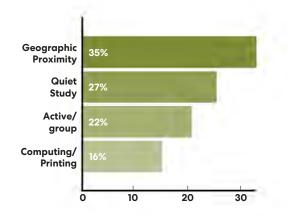


### **Student Intercept Interviews**



### Utilization

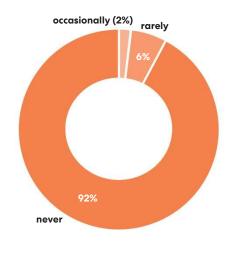
## **Primary Use Drivers**



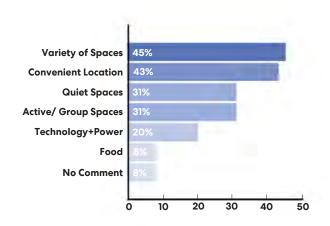
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# **Student Intercept Interviews**





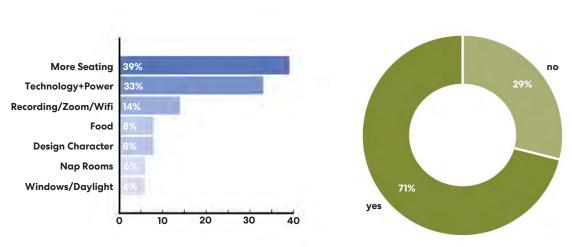
Keep



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## **Student Intercept Interviews**



# Change

**Use Other Libraries** 

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### **UNDERSEATED: Seat Count Projections**

Institution	0	Student FTE	Library Seats	% of students	Gate Counts	Visit/ Seat	Visit/ Studen
Ohio State University		61,391	4,333	7.1%	4,103,455	947	67
North Carolina State University		34,767	5,027	14.5%	2,464,590	490	71
Iowa State University		33,391	3,330	10.0%	1,916,666	576	57
Universtiy of NC, Chapel Hill		29,877	5,705	19.1%	2,667,100	468	89
Western Michigan State University		21,470	2,551	11.9%	597,958	234	28
Georgia Tech University		19,432	2,360	12.1%	318,614	135	16
Miami University		17,697	1,640	9.3%	382,474	233	22
	Average	31,146	3,564	12.0%	1,778,694	440	50
Purdue Library (2018-19)	6,8%	41,878	2,838				
PURDUE- Steady	11.4%	51,342	5,833	2,997	2,568,985	440	50
PURDUE- Growth	11.4%	54,082	6,144	3,308	2,706,101	440	50
PURDUE-High Growth	11.4%	56,442	6,412	3,576	2,824,188	440	50

For every 100 FTE increase, add: 11.4 seats

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DRIVEN BY PROXIMITY TO HUMAN AND TECHNOLOGICAL RESOURCES

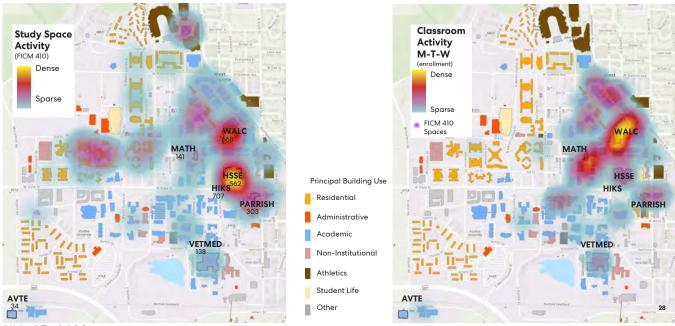
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# Where to Grow? Future Library Hub Location(s)

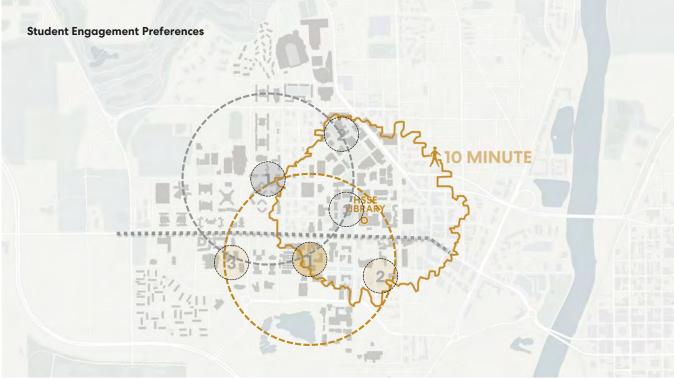
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### **Mapping Student Patterns**

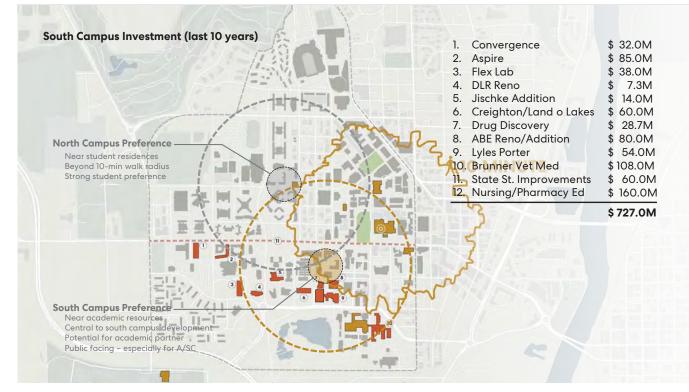


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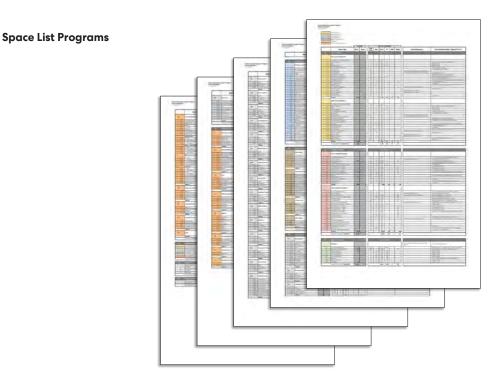


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**Program Content Summary** 

#### HSSE

Increase of harvested 6,000 sf 900+ new seats Virtual learning hub 15 group study Interview room 2 special projects rooms Quiet/silent reading room Single service point Experimental Classroom Center for Digital Scholarship More Visible A/SC Knowledge Gallery Cafe

### нікѕ

Reduced repository to 2250 360+ new seats Higher utilization seat type

#### WALC

No change in area 35+ new seats Visible Makerspace

#### MATH

No change in area 115+ new seats More seating variety/choice

#### KRAN

No change in area No change in study seats

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LYNN

Reduced 9,490 sf (to 2550 or reuse for A/SC storage) Reduced 1,500 sf (floor collections) No change in study seats

#### TERM

Reconsider library services with new Terminal Building Seat gain/loss to be determined

S-HUB (South Hub) Increase of new 48,000sf 1,000+ new seats (integrated into partner academic building) Virtual learning hub 32 group study 2 special project rooms Quiet/silent reading room Single service point Virtual Learning Hub Graduate Commons

#### R-HUB (Residential Hub)

Cafe

Increase of new 28,500sf 600+ new seats (integrated into res hall developments) Virtual learning hub Seating variety/choice Quiet/silent reading room Single service point

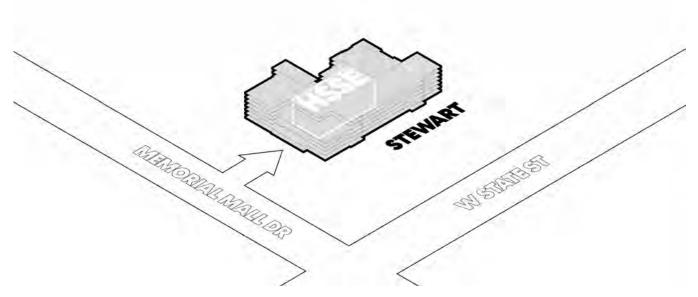
2550 (Off-Site Repository) Taking 42,500sf high-density storage Accommodate Repository, HSSE floor collections, MATH floor collections

# **Unlocking HSSE**

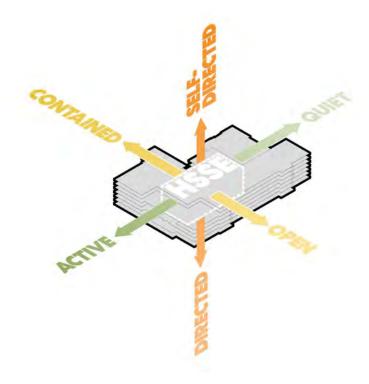
# CASE STUDY | UNIQUE ASSET | CLASSROOM SYNERGY | A/SC

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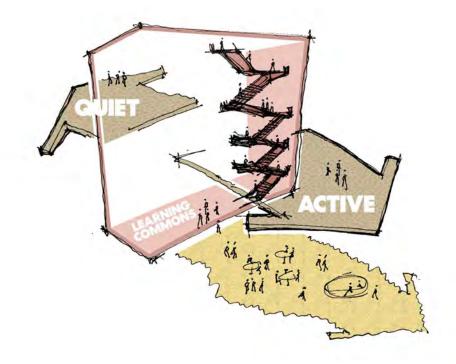


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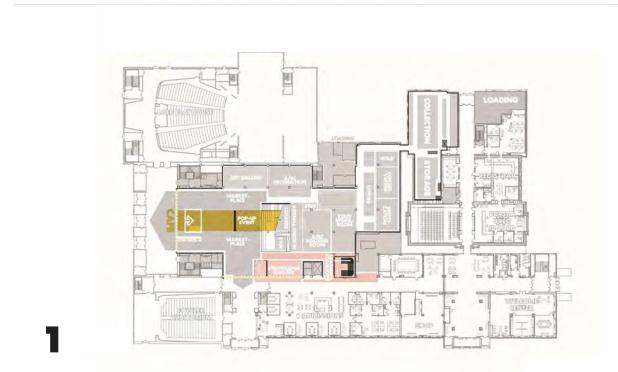


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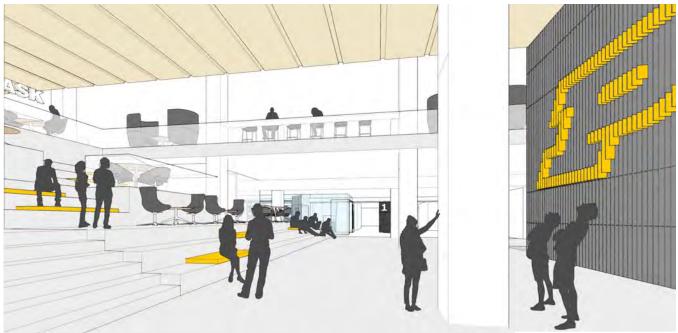


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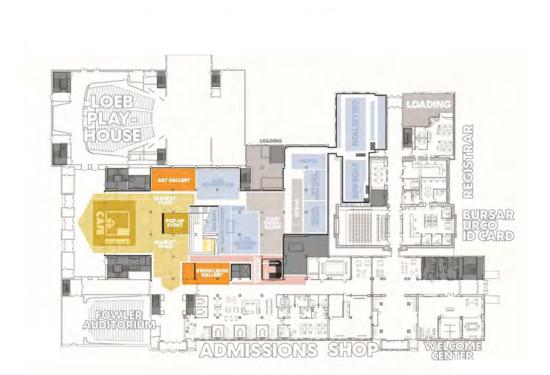




Proposed

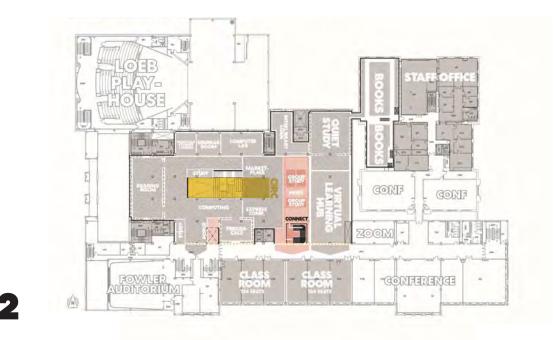
Library Arrival From North

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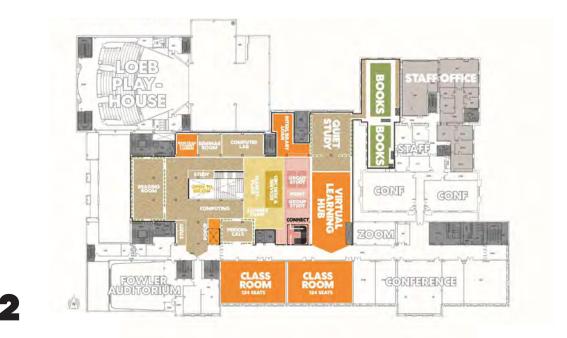
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Active Corridor at Stair & Classrooms Proposed

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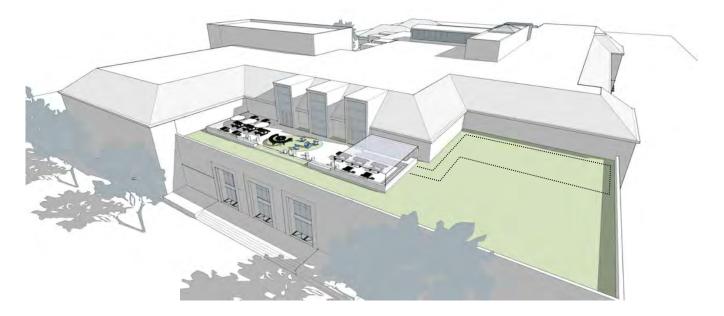
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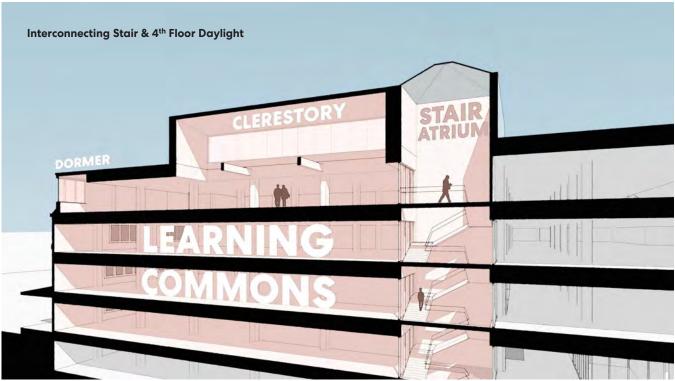
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#### Dormer Study / Library Roof Terrace

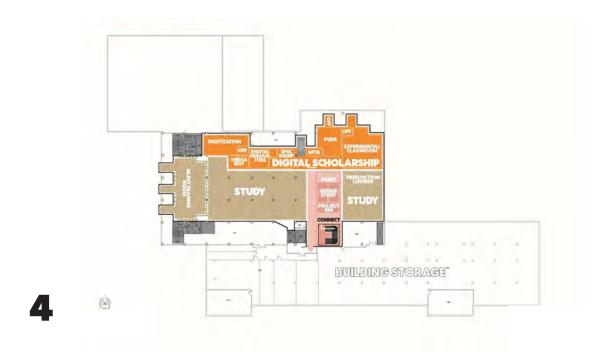


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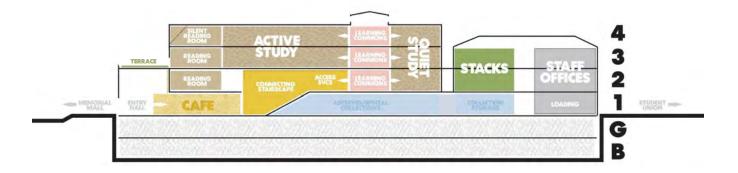


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# **Experiential Planning Update**

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#### Brand Potential – Icon System HOW



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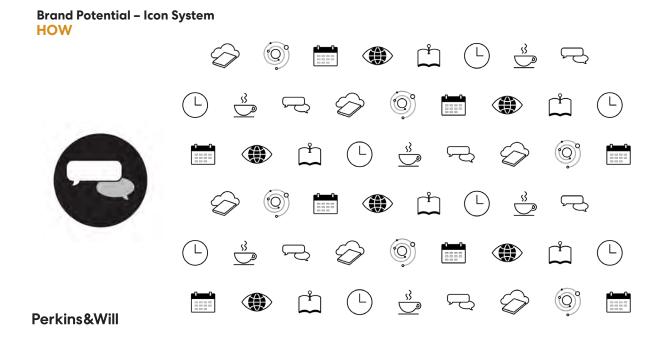


Brand Potential – Icon System HOW



#### Perkins&Will

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### Brand Potential – Exterior Identity

HOW



#### Perkins&Will

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#### Brand Potential – Exterior Identity HOW

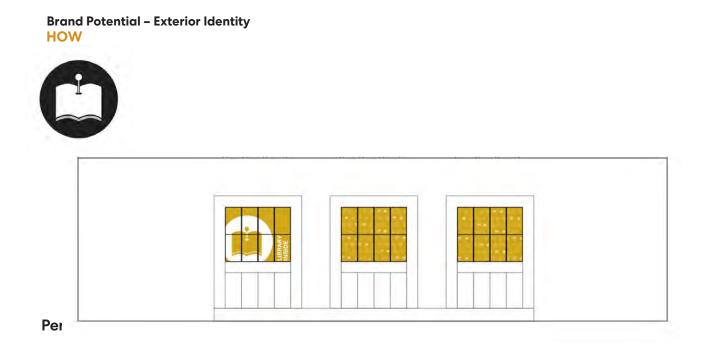




#### Perkins&Will

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#### Brand Potential – Interior Identity HOW



#### Perkins&Will

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Brand Potential – Interior Identity HOW



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Brand Potential – Interior Identity HOW



#### Perkins&Will

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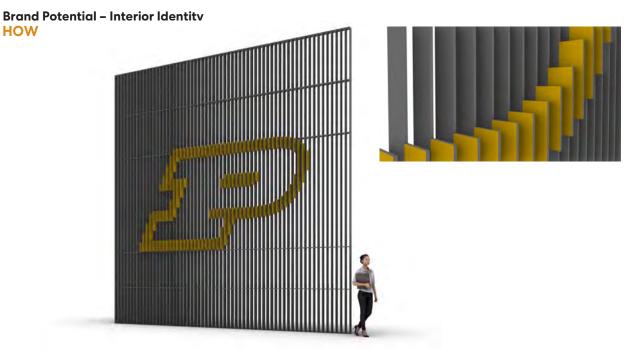


Brand Potential – Interior Identity HOW



#### Perkins&Will

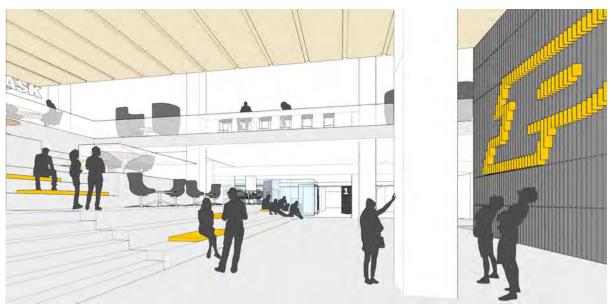
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#### Brand Potential – Interior Identity HOW



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#### Brand Potential – Interior Identity

HOW

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Brand Potential – "Book Display" HOW

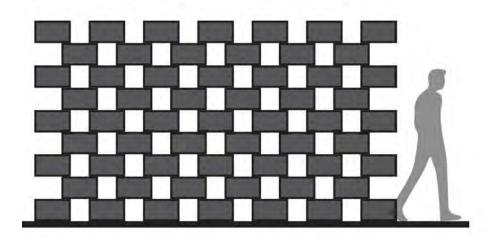




Perkins&Will

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Brand Potential – "Book Display" HOW



#### Perkins&Will

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Brand Potential – "Book Display" HOW



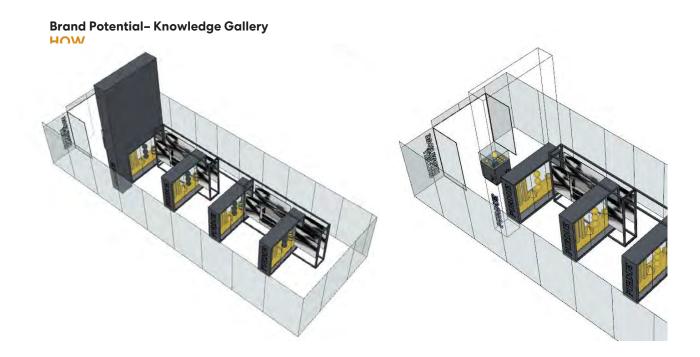
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#### Brand Potential- Knowledge Gallery HOW



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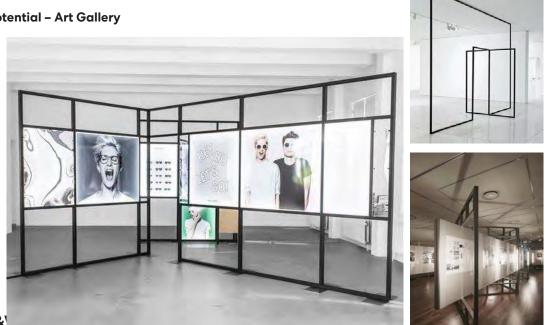


Brand Potential- Knowledge Gallery HOW

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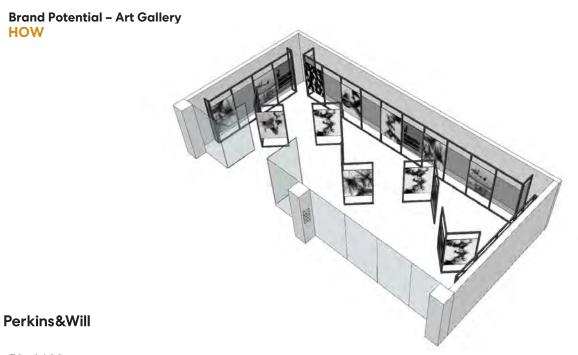
Brand Potential – Art Gallery HOW



### Perkins&

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HOW



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#### Perkins&Will

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#### Brand Potential – Story-Telling HOW

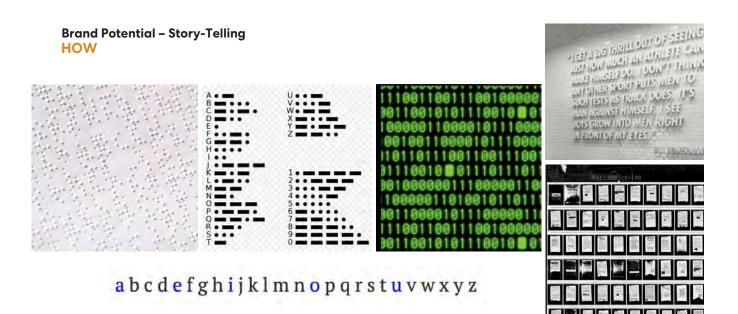


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#### Perkins&Will

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#### Brand Potential – Story-Telling HOW



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# Brand Potential – Glass Distraction Graphics HOW



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#### Brand Potential – Story-Telling HOW

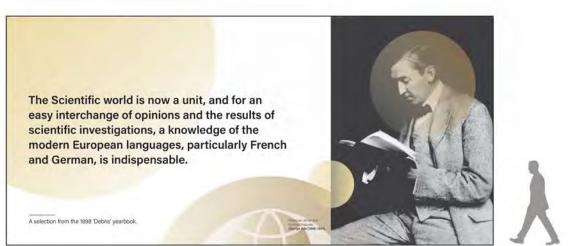
Perkins&Will

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#### 

Literature is my Utopia. Here I am not disenfranchised. No barrier of the senses shuts me out from the sweet, gracious discourse of my book-friends. They talk to me without embarrassment or awkwardross.





#### Perkins&Will

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Brand Potential – Story-Telling HOW



#### Perkins&Will

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# Brand Potential – Glass Distraction Graphics HOW



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Brand Potential – Glass Distraction Graphics HOW



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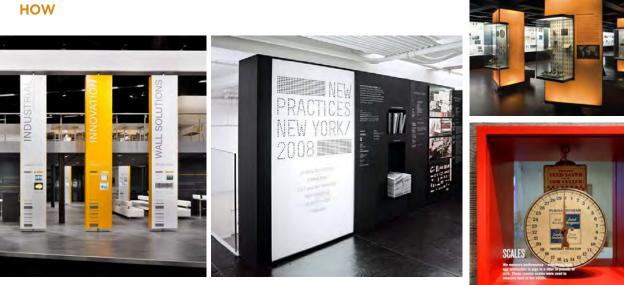
### Brand Potential – Glass Distraction Graphics HOW



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#### **Brand Potential – Exhibitions** HOW



Perkins&Will

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HOW



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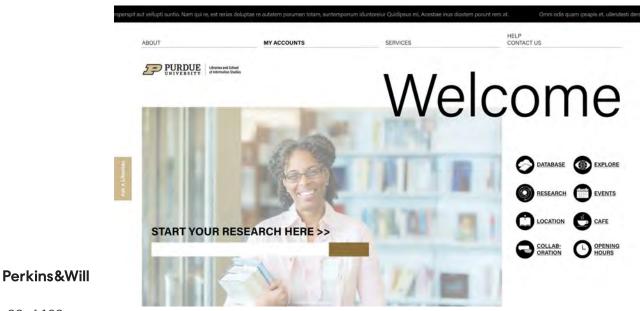




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#### **Brand Potential - Web Presence**

**HOW** CREATING EQUAL EXPERIENCES



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**Brand Potential - Web Presence** CREATING EQUAL EXPERIENCES HOW m porumen totam, sunte HELP CONTACT US ABOUT MY ACCOUNTS SERVICES PURDUE UNIVERSITY UNIVERSITY **O** Events Jun 12 2023 5:00 PM HSSE Library 1/F **TEDx PURDUE** 0 In this episode, get to know the 2021-2022 exec-utive director of TEDAPurdudy, Ray Bradley, as he tables about his elevativity in the table of the At the same time, Bridget is on her own journey. Tofolwa along as the explores the samel and seem-ingly insignificant moments that encouraged her to become the executive director of TEDAPurdueU for the 2022-2023 academic year. Perkins&Will Learn more >>

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### Brand Potential – Interior Identity, Wayfinding & Signage HOW



#### Perkins&Will

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# Brand Potential – Wayfinding & Signage HOW



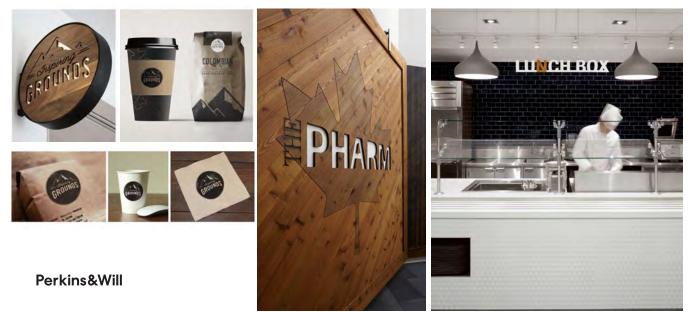
#### Perkins&Will

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### Brand Potential – Branded Destinations HOW

**Brand Potential – Branded Destinations** 



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#### Perkins&Will

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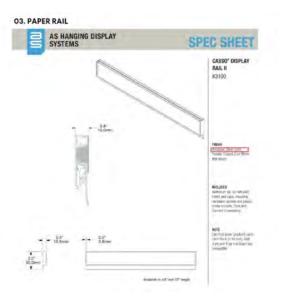
#### Brand Potential – Postings HOW



#### Perkins&Will

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#### Brand Potential – Postings HOW

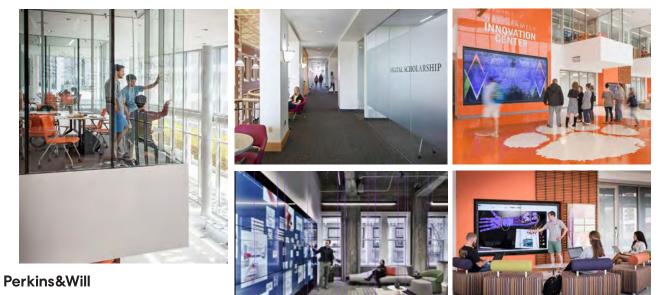


#### Perkins&Will

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#### Brand Potential – Center for Digital Scholarship HOW



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#### Brand Potential – Virtual Learning Hub HOW



Perkins&Will

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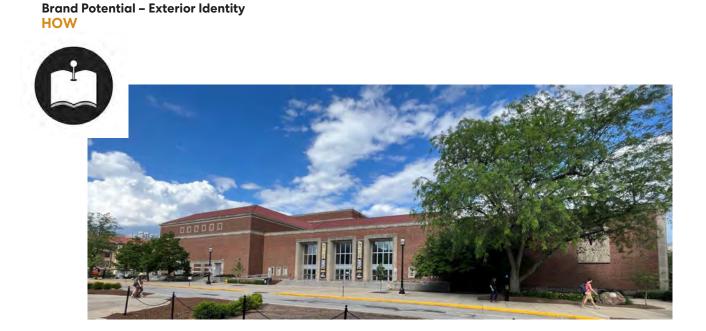








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Brand Potential – Exterior Identity HOW





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### Brand Potential – Branded Destinations HOW

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### Brand Potential – Branded Destinations



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#### Brand Potential – "Book Display" HOW



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Brand Potential – "Book Display" HOW



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# Brand Potential- Knowledge Gallery

HOW



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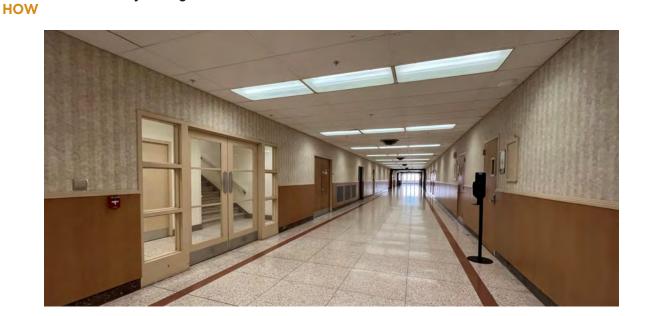


Brand Potential- Knowledge Gallery HOW



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**Brand Potential – Story-Telling** 



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Brand Potential – Story-Telling HOW



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# Brand Potential- Knowledge Gallery HOW



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Brand Potential- Knowledge Gallery HOW



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Brand Potential HOW



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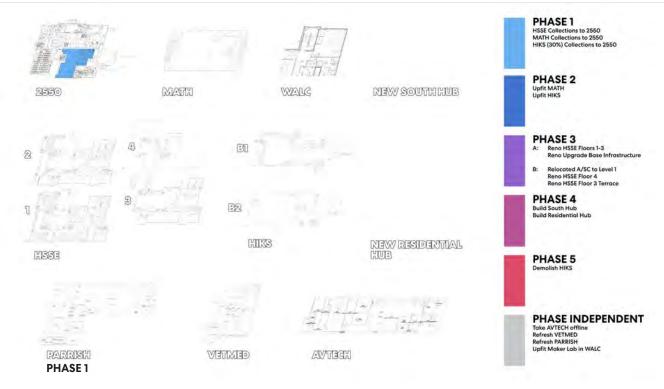
# Brand Potential HOW



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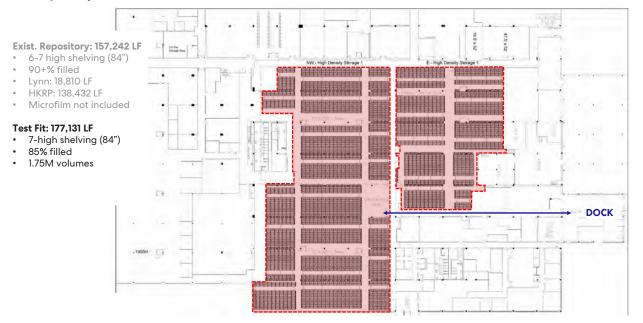
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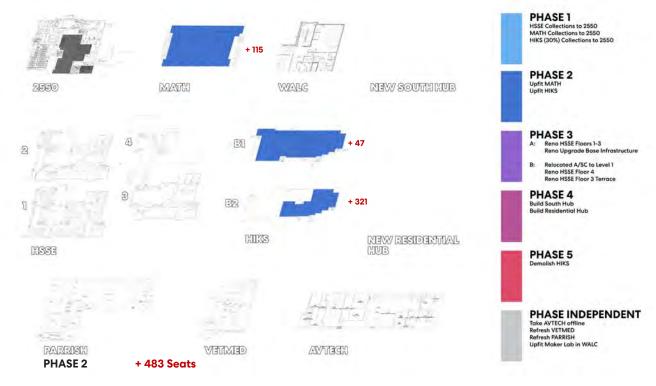
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### 2550 Repository (Test Fit)



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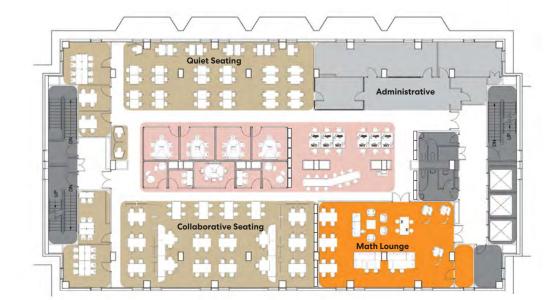
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### **MATH Test Fit**



+ 115 seats

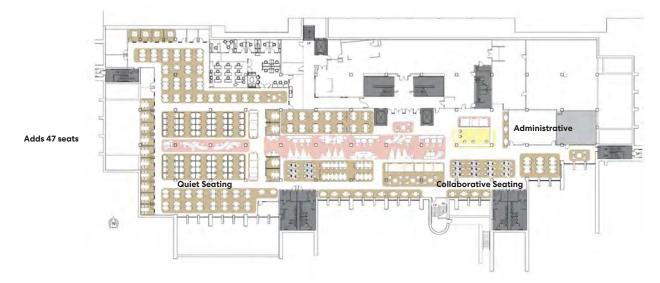
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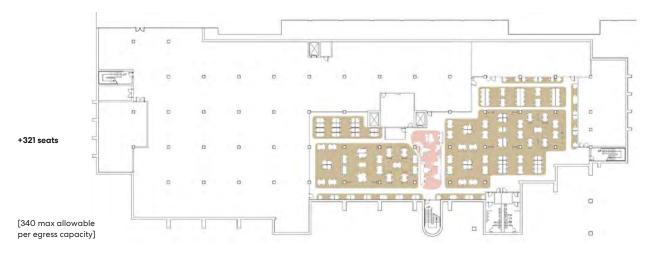
### **HIKS G-Level Test Fit**



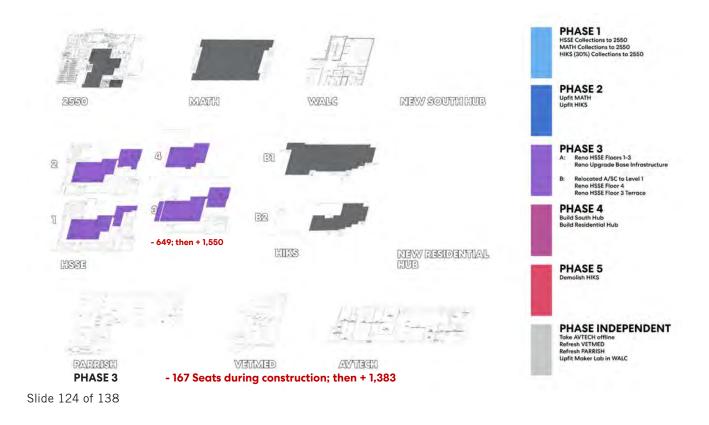
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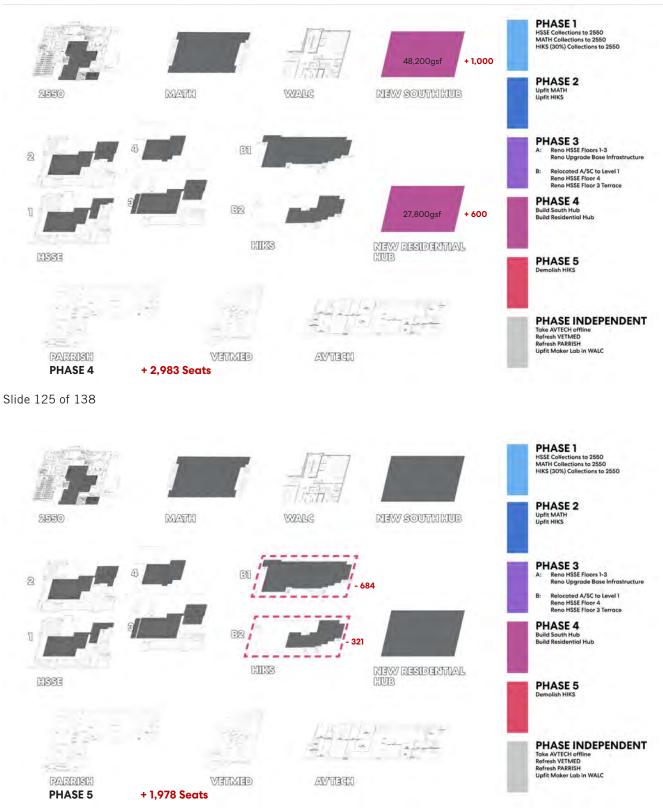
### **HIKS B-Level Test Fit**



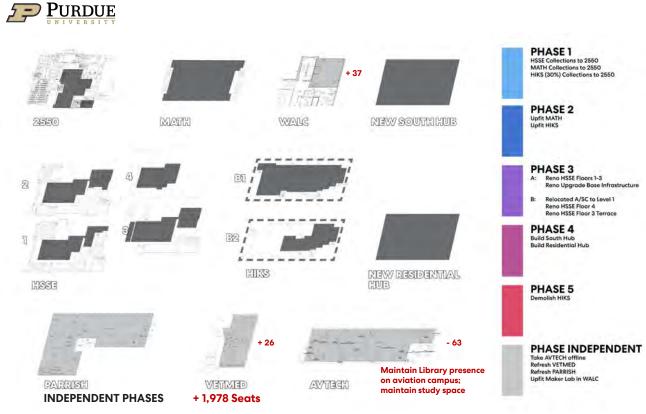
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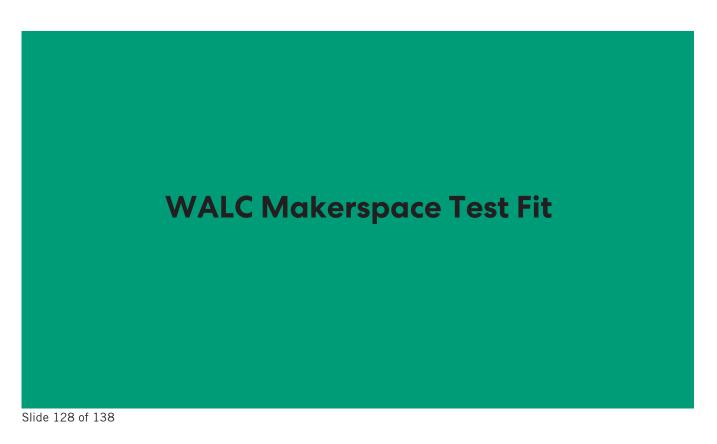




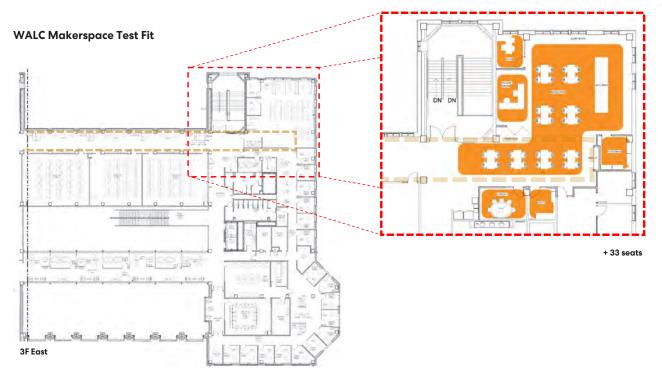
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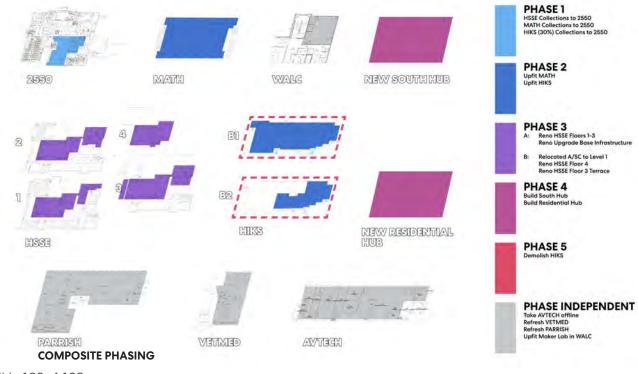
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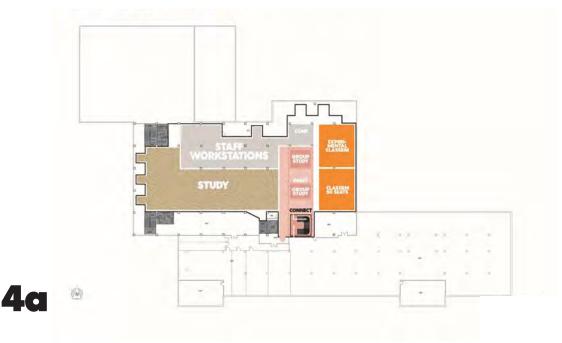






# Q+A

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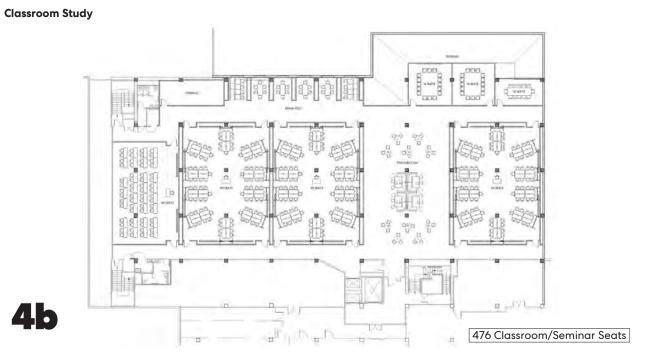


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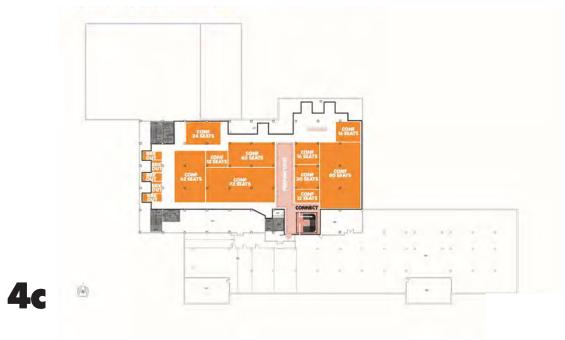


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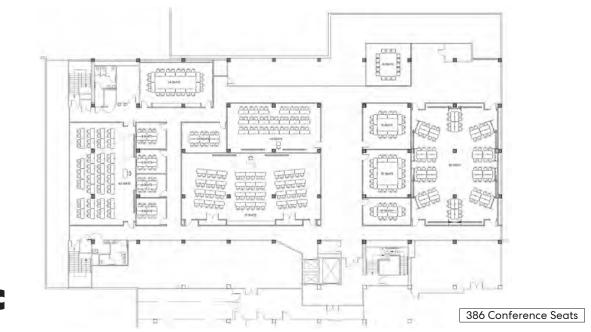
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**Conference Study** 



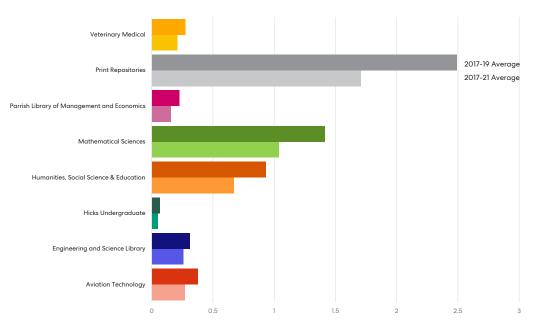
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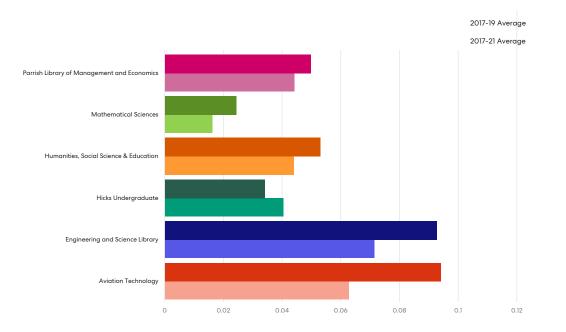
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### Circulation / SF by Library Total & Pre-2020



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### Reference Engagements / SF by Library Total & Pre-2020



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# PRECEDENT TOUR SUMMARY 21C Hotel

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As part of Workshop #4 on 2/21/2022 and 2/22/2022, the working group team met in Chicago for the following tours of precedent projects to help frame the new proposed work at Purdue.

Figure 5.1 - Plucky restroom signage

Figure 5.2 - Politically provocative art. Using the typically dead spaces of a hotel as a gallery space. Main gallery invites public events into the hotel.

550



# **Aspen Dental**



Figure 5.3 - Social stair / double height space as gateway element to office. The space was intended for all staff meetings, but is not conducive acoustically for that. Additionally, it doesn't lead anywhere, but simply ends in a group of lounge seating.



Figure 5.4 - Branding wall -- custom millwork





Figure 5.5 - Call booth room for private conversations. Good size for personal space.

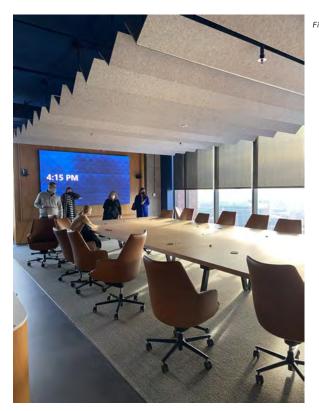


Figure 5.6 - Creative acoustic ceiling solution for conference room.





Figure 5.7 - Simple foodservice, using economical materials yet announcing prescence and brand.



Figure 5.8 - Building lobby green wall sculpture.





Figure 5.9 - Simple foodservice, using economical materials yet announcing prescence and brand. Note also the hanging discs -- each represent a partner dentist office location and can be updated over time. Creates an interactive art element.

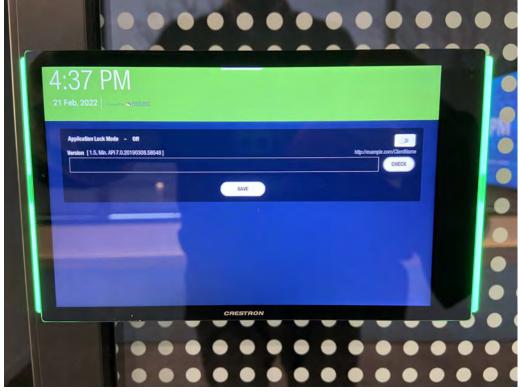
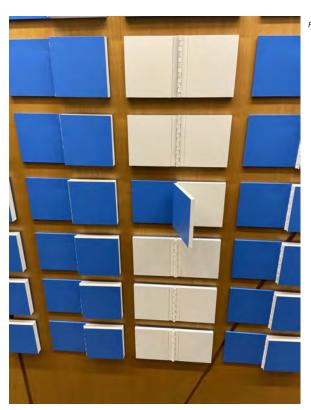


Figure 5.10 - Room reservation platform.





Figure 5.11 - Furniture solution along bench seating rather than built-in elements.



### Figure 5.12 - Low-tech interactive branding wall.

Perkins&Will



# **EY Wavespace**



Figure 5.13 - Hotdesking setup at EY Wavespace's office for internal employees



Figure 5.14 - Smart Board technology





Figure 5.15 - Main orientation gallery at EY's client-centered workshop space. Integrated tech has face-recognition.

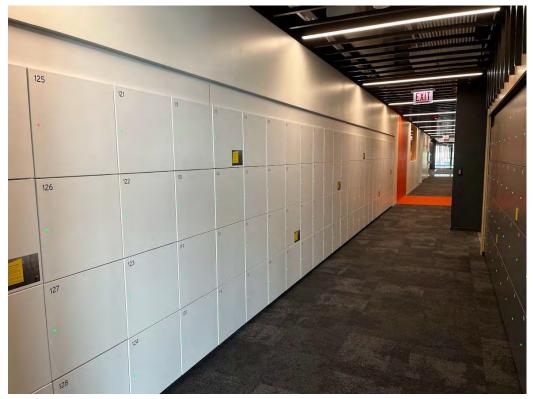


Figure 5.16 - Day locker storage for client workshops



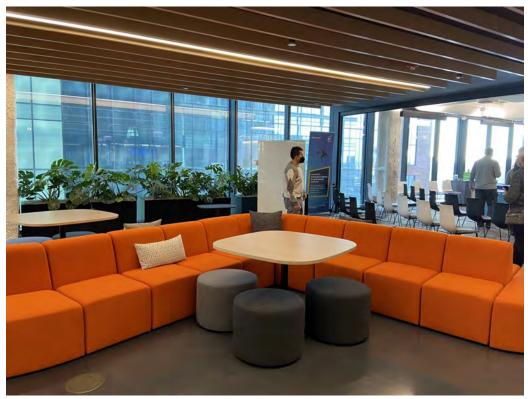


Figure 5.17 - Mobile soft seating furniture. Note the large operable wall beyond leading into the orientiation gallery.



Figure 5.18 - Smart board collaboration / brainstorming zones for breakouts during client conferences





Figure 5.19 - Curated local art as visual focus.

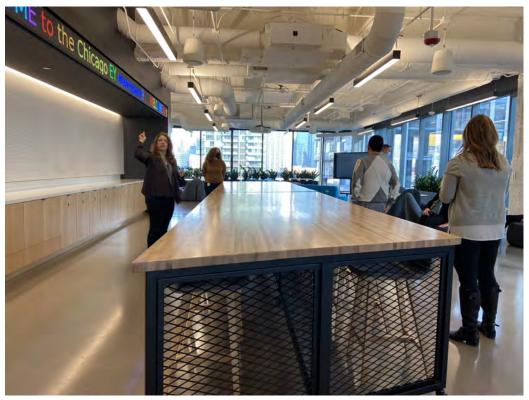


Figure 5.20 - Harvest table at breakroom transition zone





Figure 5.21 - Furniture is all on rollers for ultimate flexibility. 4-person touchdown setup.

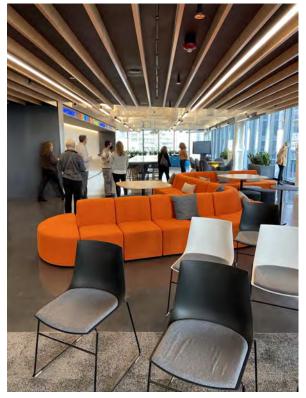


Figure 5.22 - Between orientation gallery and break room





Figure 5.23 - Mobile furniture to help separate spaces.



### Figure 5.24 - Private call room

Perkins&Will



# **Northwestern - Libraries**



Figure 5.25 - Furniture solutions make the space much more usable. Seating with integrated privacy screens/markerboards were preferred by students.



Figure 5.26 - Simple signage / threshold wall





Figure 5.27 - Archives / Special Collections on display

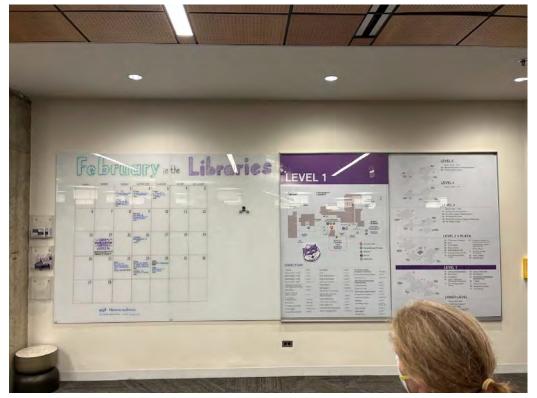


Figure 5.28 - At entry, markerboard calendar as low-tech interactive posting for Library staff. Liked by Purdue staff.



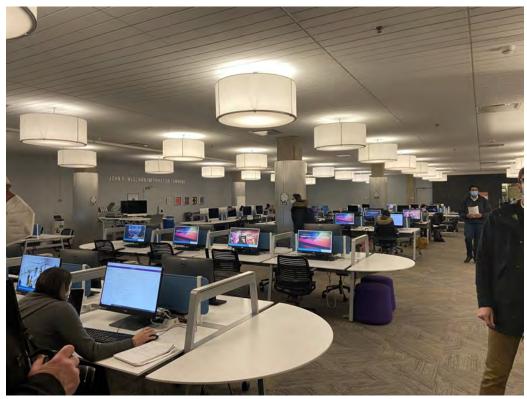


Figure 5.29 - Computing zone was well-utilized.



Figure 5.30 - Historic reading room. Poorly utilized with collections and desk rather than student study space.





Figure 5.31 - Connection between historical collections and modern art.



# Northwestern - Ryan Field House



Figure 5.32 - Simple vinyl graphic, wall applied.

Figure 5.33 - 'Wow' moment for Field House lobby. Custom video clips edited for vertical format.





Figure 5.34 - Divisible auditorium to allow full team meetings and split between offense/defense



Figure 5.35 - Full-wall graphic branding.





Figure 5.36 - Full-wall graphic branding, aligning with key program goals and mission.



Figure 5.37 - Branding portraitures help add cadence to corridor and highlight different sports.





Figure 5.38 - Open area that can be used for large team meetings and study hall type events. Acoustics could be better. More power is needed to provide space more conducive for studying.

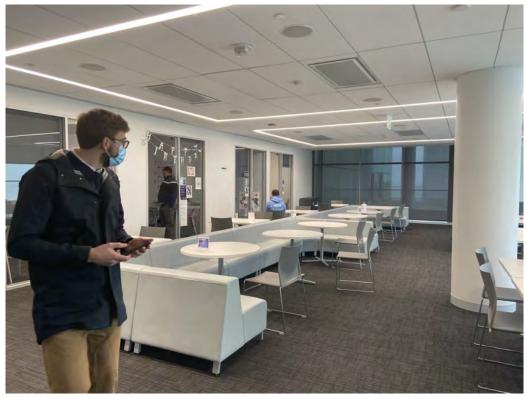


Figure 5.39 - Study hall / tutoring zone





Figure 5.40 - Entry lobby interactive screens. Each are touch-enabled to allow visitors to access content for each NCAA sport.



Figure 5.41 - Entry lobby interactive screens. Each are touch-enabled to allow visitors to access content for the Football program.





Figure 5.42 - Entry lobby interactive screens. Each are touch-enabled to allow visitors to access content for each NCAA sport.



Figure 5.43 - Uniforms as display.



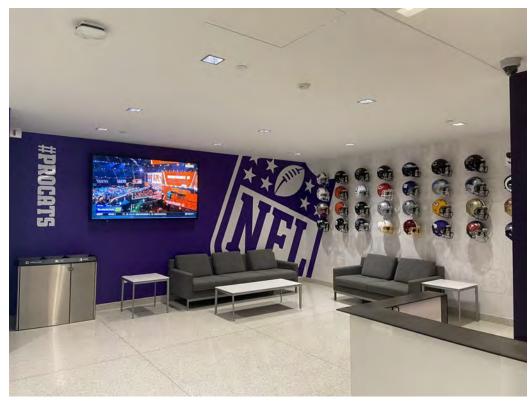


Figure 5.44 - NFL helmets from each team that has a Northwestern grad.



## Northwestern - The Garage



Figure 5.45 - Prototyping shop in the Garage. Ventilation is lacking. Spray booth would be preferred.



Figure 5.46 - Cafe coworkng zone. Garage doors open up from seminar space.





Figure 5.47 - Break room / cafe space

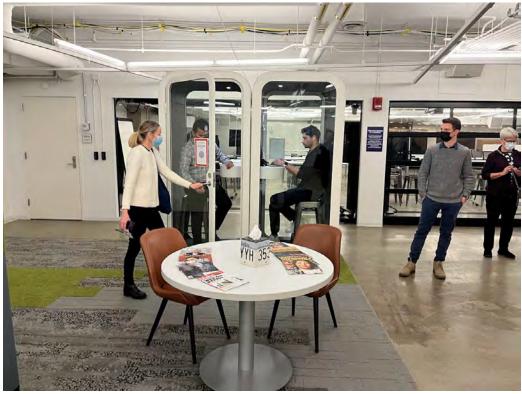


Figure 5.48 - Mobile sound-isolating call booth



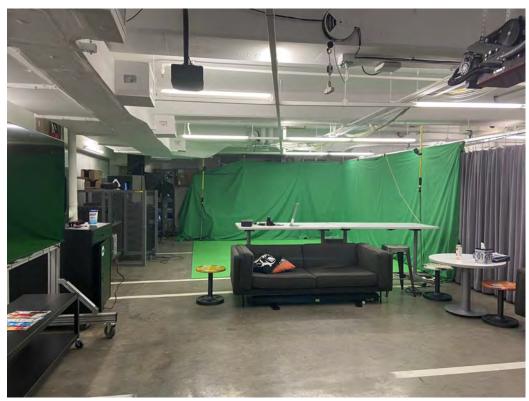


Figure 5.49 - Greenscreen and video production zone



Figure 5.50 - Coworking for students / staff who are working on entrepreneurial ventures and projects





Figure 5.51 - Entry to the Garage space -- down a utilitarian stair. Good use of branding along a well-trafficked corridor to increase visibility.



Figure 5.52 - Disclosures.



### U Chicago - MADD Makerspace



Figure 5.53 - Open atrium of Computer Science hall, prior to entering Makerspace. Shared foodservice zone spills into double height space.



Figure 5.54 - Wayfinding



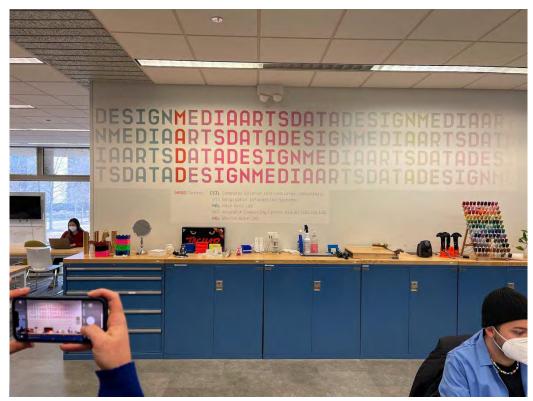


Figure 5.55 - Entry / student-staffed desk for MADD



Figure 5.56 - 3D printing (clean maker) and flexible video production





Figure 5.57 - Lasercutting (dirty maker), enclosed with glass to control dust



Figure 5.58 - Lasercutting (dirty maker), enclosed with glass to control dust. Note snorkels on the back wall for exhaust.



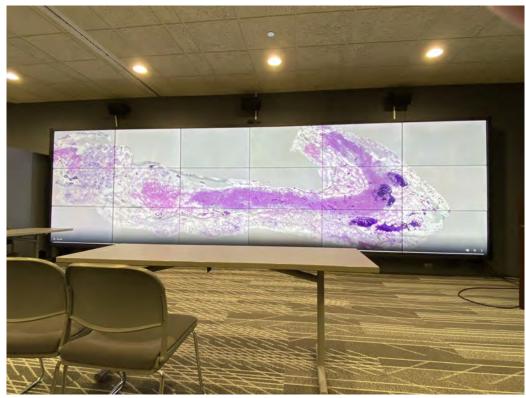


Figure 5.59 - Viz lab for large-scale research visualizations. Partnerships with student and faculty research organizations.

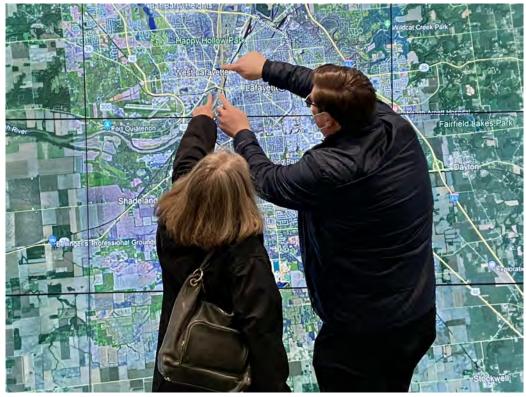


Figure 5.60 - Viz lab for large-scale research visualizations. Partnerships with student and faculty research organizations.





Figure 5.61 - Huddle spaces



Figure 5.62 - Open Cafe



# U Chicago - Manseuto Library



Figure 5.63 - Main reading room with arched glass ceiling.



Figure 5.64 - View from circulation desk.





Figure 5.65 - Gateway to main reading room.



Figure 5.66 - Conservation lab space within library. Unfortunate use of prime student-focused real estate for back of house library function that would prefer less lighting.





Figure 5.67 - Group study rooms



Figure 5.68 - Underground automatic storage and retreival system (ASRS)





Figure 5.69 - Integrated power, data, laptop lock and lighting.



# U Chicago - Regenstein Library



Figure 5.70 - Lower level collaboration space. Much liked by students.

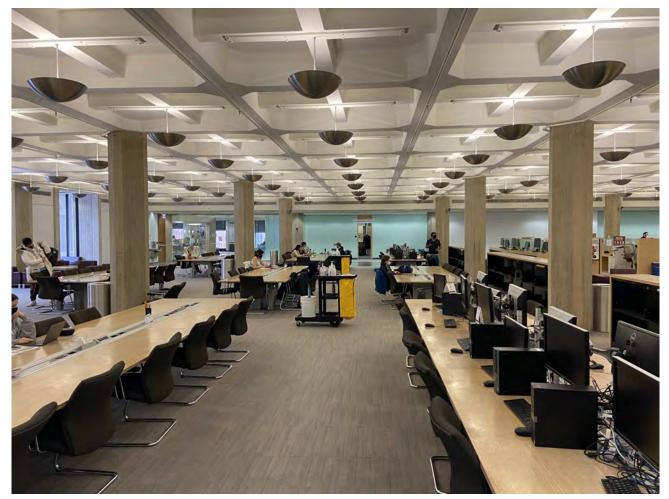


Figure 5.71 - Main level reading and computing space.





Figure 5.72 - Self-check kiosks



Figure 5.73 - Opposite the Special Collections gallery, certain artifacts are displayed in the wall.





Figure 5.74 - One button studio - creation technology.



Figure 5.75 - Special collections group reading room for class setups. Virtual / hybrid options as well with book scanner.





Figure 5.77 - IT Techbar for help and repair, just off the main level reading room



Figure 5.79 - Looking into special collections gallery -- good location between main Regenstein reading room and Mansueto Library





Figure 5.78 - Looking into special collections gallery -- good location between main Regenstein reading room and Mansueto Library



# Virgin Hotel



Figure 5.79 - Ballroom. Use of curtains at perimeter helps to hide storage and provide acoustic help.



Figure 5.80 - Eclectic room interior.





Figure 5.82 - Choice of seating: 'the library' lounge



Figure 5.83 - Choice of seating: banquette





Figure 5.84 - Branded signage. This is the path to the speakeasy bar.



Figure 5.85 - Funky signage.





Figure 5.86 - Branding and statement piece.



Figure 5.87 - High-top seating adjacent to bar area.



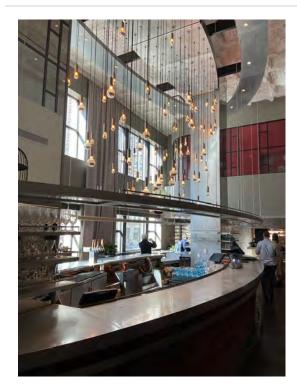


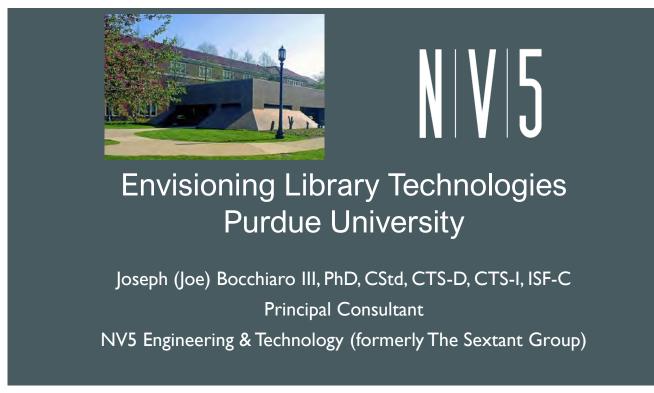
Figure 5.88 - Custom bar with chandelier centerpiece. Virgin Hotels puts guest connections at the center of the experience.



#### **TECHNOLOGY VISION SUMMARY**

The Library Masterplan contemplates opportunities to leverage technology to assist Purdue Libraries' future vision to impact students and negotiate a new hybrid learning world. The following presentation sets the groundwork for these conversations by bringing the deep experience of NV5 to the masterplanning effort.

#### **PRESENTATION SLIDES**



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- Outcomes
- IoT: Internet of Things Everywhere
- Tech Design Aspirational Goals
- The "6 ½ C's" of Library Technology
- Outdoor Spaces
- Experiences, Experiential Learning
- Beyond Physical Security
- Intelligent Building Readiness
- Apps for Buildings
- Technology Infrastructure
- Information Domains
- The Big Picture
- Discussion and Q&A

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#### Outcomes

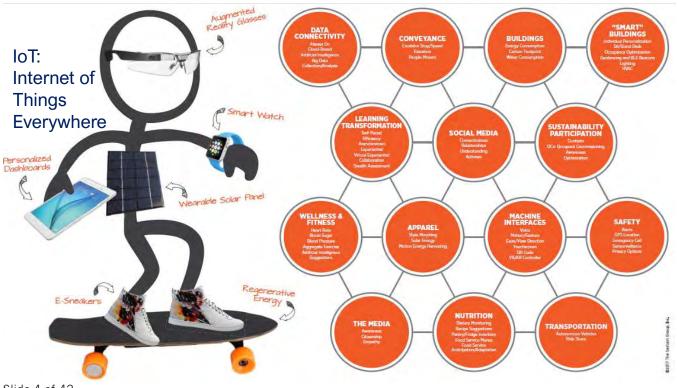
- 1. Purdue's Values Realization
  - Innovation
  - Collaboration
  - Agility
  - Equity
  - Stewardship
  - Service
- 2. Apply technology solutions that respond to the "6 1/2 C's" of library activities
- 3. Explore new technology types that may be implemented
- 4. Incorporate emerging Internet of Things (IoT) and Intelligent Building (IBT) technologies that will impact the programming of architecture
- 5. Foster student experiences and student success!!





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## Ubiquitous Audiovisual

- Leverage AV assets across age groups
  - Presentation Rooms
  - Visualization
  - Performance Spaces
  - Maker Spaces / Specialized Equipment
  - Faculty Sandboxes and Production (Academic)
- Analog Sunset
- Ease-of-use, low maintenance, supportable
- Create library system-wide standards
- Converged AV/IT (AVoIP)
- AVAS: AV as a Service

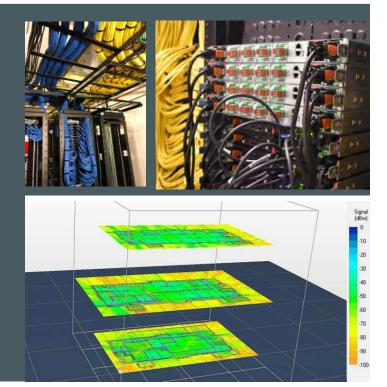


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#### Foundational IT

- Minimize "hops"
- Plan for 6G and beyond
- · Pervasive wireless connectivity
- Assume omnipresent 8k
   streaming video
- Intelligent Buildings / IoT strategy
- PoE: Power over Ethernet
- "Heat Map" Modelling



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## **Trustworthy Security**

- Lessons from the pandemic
- Lessons from the protests / riots
- Lessons from active shooter events
- Balance CPTED with confidence, privacy, dignity, inclusion
- Occupancy Control
- Emergency Responders
- Attention to Lighting for Cameras



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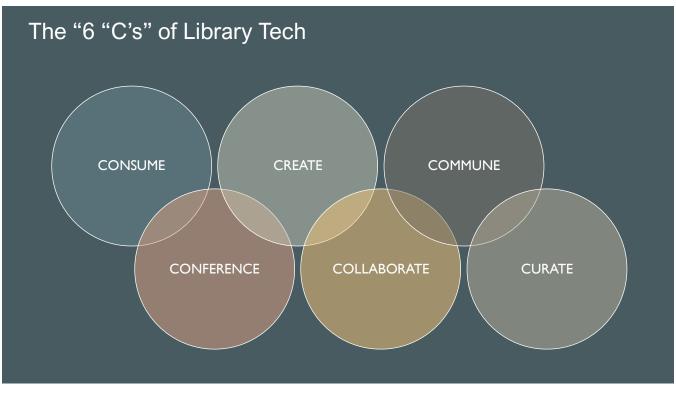


## Robust Tech Infrastructure

- Smart Buildings / Smart City: Internet of Things
- Distributed Antenna Systems
- Outside Plant Duct Banks
- IoT and SDG's: Sustainable Development Goals
- Power over Ethernet (PoE) potential
- Visible / celebrated tech



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## Consumption!!

#### TODAY

- Beyond Shhhh!
- Auditioning and screening spaces: individual (carrels)
  - Audio books
  - Videos
  - Music
- Auditioning and screening spaces: group
- Computer Stations
- Endcap Digital Signage

#### TOMORROW

- HIGH QUALITY Auditioning and screening spaces
- Virtual Reality Experience
   Rooms
- App-based collection catalog
- Digital Scholarship

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## Creations!!

#### TODAY

- Audio and Video Studios
- Oral History Studios
- One-Touch Studios
- Maker/hackerspaces
- Teaching Kitchens
- Community Gardens
- Theaters, Black-Boxes

#### TOMORROW

- Tinker Labs?
- VR / XR Studios?

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Collaborations!!

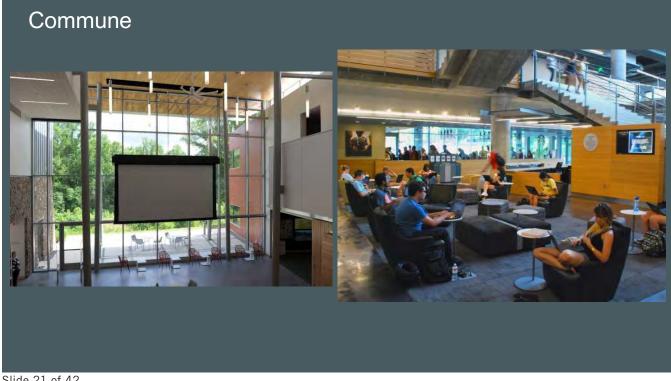
### TODAY

- Gaming Areas
- Technology-Enhanced Collaboration
  - Huddle Rooms
  - Ideation Spaces
  - Visualization
- Tutoring
- Couselling
- Mentoring
- Entrepreneurship Support

### TOMORROW

- Esports
- VR Gaming
- Social Media
  - Meetups
  - Activism
- Slams? Hackfests?
- Incubation / Entrepreneurship

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### Community!! TODAY

- Meet Me at the Library!
- Local History / Placemaking
- Government, Organizations
- Wayfinding / Digital Signage
- Meet-Ups
- Book Clubs
- Screenings, TED Talks, Slams
- Art Shows, Book Signings
- FOOD and coffee!
- Celebrate- the "7th C?"

### TOMORROW

- Smartphone data transfer
- Movie Clubs
- Artistic Building Illumination: synchronized music/light
- Autonomous Vehicles / Robots / Drones
- Telemedicine Stations
- Expedition Outfitting
- More FOOD and coffee!\*

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### Community!! TODAY

- Meet Me at the Library!
- Local History / Placemaking
- Government, Organizations
- Wayfinding / Digital Signage
- Meet-Ups
- Book Clubs
- Screenings, TED Talks, Slams
- Art Shows, Book Signings
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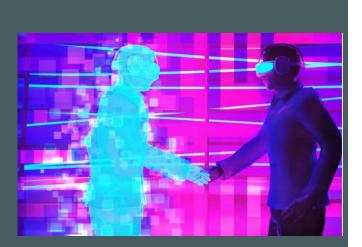
### TOMORROW

- Smartphone data transfer
- Movie Clubs
- Artistic Building Illumination: synchronized music/light
- Autonomous Vehicles / Robots / Drones
- Telemedicine Stations
- Expedition Outfitting
- More FOOD and coffee!\*

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### Community – The Metaverse?

- Social Infrastructure
  - Physical interaction
- Virtual Social Infrastructure:
  - What's missing with Facebook/Instagram/Twitter etc.?
  - Virtual social interaction



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### Curating!!

TODAY

- RFID Tagging
- ASRS: Automated Storage and Retrieval System
- 2-D Digitization
- 3-D Digitization
- Cloud Strategies
- Patron Access

### TOMORROW

- Social Media Archiving
- Virtual Reality Archiving
- Extended Curation Networks
- Artificial Intelligence: Machine Learning

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### Academic "Sandboxes"



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### Important Developments in Technology for Libraries (Horizon Report)

#### **Consumer Technologies**

#### > Drones

- > Real-Time Communication Tools
- > Robotics
- > Wearable Technology

#### **Digital Strategies**

- > Location Intelligence
- > Makerspaces
- > Preservation &
- **Conservation Technologies**

#### Internet Technologies

#### > Blockchain

- > Digital Scholarship Technologies
- > The Internet of Things
- > Library Services Platforms
- > Syndication Tools

#### Learning Technologies

- > Adaptive Learning
- **Technologies**
- > Microlearning Technologies
- > Mobile Learning
- > Next-Generation LMS
- > Virtual & Remote Labs

### Social Media Technologies

- > Crowdsourcing
- > Online Identity
- > Social Networks

#### Visualization Technologies

- > 3D Printing
- > Information Visualization
- > Mixed Reality
- > Virtual Reality

#### **Enabling Technologies** > Affective Computing

- > Artificial Intelligence
- > Big Data
- > Electrovibration
- > Flexible Displays
- > Mesh Networks
- > Mobile Broadband
- > Natural User Interfaces
- > Near Field Communication
- > Next-Generation Batteries
- > Open Hardware
- > Speech-to-Speech Translation
- > Virtual Assistants
- > Wireless Power

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## > Virtual Worlds



### Access to Quality

- Digital Natives are HERE!
- Libraries applauded for alleviating "Digital Inequality"
- Continued "Media Inequality?"





Packard Theater Library of Congress

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### **Outdoor Spaces**

- New bright displays!
  - LCD
  - LED
- Wi-Fi coverage
  - Green Spaces
  - Parking Lots
- Power, Loudspeaker, Projector Connections
- Digital Signage
- Autonomous Vehicle Management

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### Videoconferencing / Continuous Presence

- Video Conferencing
  - Web Conferencing
  - Virtual / Continuous Presence
  - Distance Learning

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Violation may constitute contempt of court and result in a fine of up to \$500 and a jail term of up to 180 days.



HyFlex Classrooms, Version 1.0

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North Carolina State University – James B. Hunt Library

New Tufts Library, Weymouth, MA

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### Experiences, Experiential Learning

- Get Outside! Expedition
   Rooms
  - Provision Equipment: VR Cameras, GoPros, etc.
  - Special Equipment: Safety / PPE, Clothing, etc.
  - Charging Stations
  - Autonomous Vehicles
- Virtual Reality Rooms
  - Tourism Docents
  - Instructional
  - Games

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### Physical Security and Beyond

- Traditional 4 Sub-Systems
  - Access Control
  - Intrusion Control
  - Video / Audio Surveillance
  - Asset Control
- Pandemic Issues
  - Contactless
  - Frictionless
  - Occupancy Control / Management
    People Counting, Density
  - Temperature, Biometric Measurement
- Credentialling
  - Multi-Factor Authentication
    - Health Status

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### New, More Better Tech

- Wi-Fi "Heat Mapping"
- PoE Lighting, Circadian Rhythm
- Projection Mapping
- Sound Masking
- Interactive Displays
- Edge Blending
- Facial Recognition
- Blockchain Transactions / Ledgers
- Li-Fi: Visible Light Communications
- Shared Studios

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### Intelligent Building Readiness

- Accommodate current converged technologies: AV over IP, SE over IP, BMS/BAS, etc.
- Acknowledge inevitable future technologies
- Centralize technology in data rooms
- PoE: Power over Ethernet
- Distribute active network switches throughout building
- Standards-Based (BICSI, TIA, AVIXA)
- IT Personnel in Facilities Department
- Integration of building, technology and energy systems, including building automation, telecommunications and facilities management systems
- Leverage BIM Metadata

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### Apps for Buildings

- NFC: Near Field Communications
- · Air Quality, Cleaning Status
- . Augmented Reality Wayfinding
- . Digital Concierge
- · Collection Searching
- · Virtual Docents
- . Demand side response and control, Energy use reporting
- · Collect data points using current and advanced sensor networks
- . Be capable of learning about and adapting to user's preferences
- · Provide data on occupancy that can also inform space utilization approach
- . Cybersecurity, Personal Privacy

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NV5

# DISCUSSION! Questions! Attempts at Answers!

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